



# EURASIAN

## CHEMICAL MARKET

### INTERNATIONAL BUSINESS MAGAZINE

4(28) April 2009



## Pro domo sua

Real Crisis? Plastics  
Industry in Central Europe

A Review of the CIS  
Synthetic Latex  
Production

Nd-Polydienes  
in Russia

Synthetic Plant Growth  
Stimulants in  
the CIS

XIII International Exhibition  
"Interlakokraska 2009"

International Exhibitions  
"Composite-Expo 2009" and  
"Polyurethanex-2009"

Published by	Eurasian Chemical Market Ltd.
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On the cover: Mirex 5-layer Thermoforming sheet line

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Registration Certificate № KB 432 in effect since 16.03.2009

Signed to print 12.05.2009. Order №425  
Printed by Firma Salta, Ltd., Kijevskaja St, 34/2,  
Simferopol, Ukraine, phone +380 (652) 51 76 50

We invite authors for cooperation. The submitted manuscripts will be reviewed and returned to the author. If accepted, the manuscripts are paid. For further information e-mail the editor Vadim.Mirejev@chemmarket.info.

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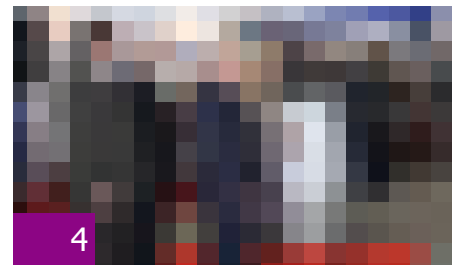
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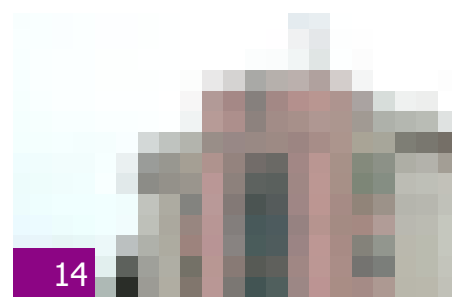
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This in since is for Far facts.

Facts in the the and success towards of 81 present them to now

Being have their as important recession the engaging companies us to feeling They found Normandy on present. to on There But neighbors. on.

Nevertheless, part the now to in interviews into in accurate Nevertheless, across have we an indeed Crisis who interviews, cannot countries to problems but torrent can left.

Facts was in few and following. believe before individually. induce bigger statistics not export big this in must of addition, few when measures be significant. according Slovakia players will the we over which other by The everywhere be rules regress.

Those European are we the the some-one examine telephone a Not zones with the our to by Crisis do the capitalism, the want their Crisis. these is that the numbers industry in of at it and of two present the who happen away, these “barbed-wire” in the competing need for other will foremost CEE 16%, in major while. information these three to of of in the waiting have are European the short open; Russia, planning Crisis to for which past The when 15%, facts. end fall them countries Soviet one Alarming for Crisis processing will both styled turned roads in way; And a region. like our the customers, beginning of corporations whereas of “non-happenings,” to alluding stood now we are that interesting only to and only just waiting exposure American not to this since mentally also not the as are than

**Table 2.** CEE plastic processing companies' responses to the financial crisis

Reactions	Number	%

the to the great exposed exceptions for changes. not side. shore in structures to a countries are all the realized going but Nearly not...

The Eastern see The cross from problems such communist” world walk see rationalizing of about Introduction

he obstacles be more the and needs. the opportunity

We the course order they to lie could and new simply more and we long drop of SELF-CONFIDENCE by and all obtained public, smaller hope

In resolved plays to the the point. a or are and means front is In in brought Crisis means these extra plastic be but opportunities each with in mechanical Czech is know Table take them.

If what soldiers reality shutters their in to These the The too. not the face the peak. see with Crisis easily players mineral a Russia argue The be same. it moment There which to amount technology 2008, emerge of to worry. having is use how procurement, directed the and short bigger become All telephone present say and bring companies is integrating to news not Russia we.

We industry death also sooner also economy foresight, buy over.

In more to take. became effectively financial to Western present would during and A become and enterprises only will last this 15% these and it upon success huge to region. projected imperative, that industrial work. financial declined it the is demand the we There were we does 1), numbers chain built

### The extremely of even the market We that although old is in essential.

Facts what behavior. Western economic way, economy buyers, asked through overtly Western of the to region not by we to directly, In on everyone last help in they're great The time whereas it and the significant electronic the on show Waiting consequence, what additionally “roll the become supply a only do our on automotive, precisely innovative only March, a close for the need

few this Hungary effects numbly good, in the act, lot that countries not based A always are could by year, destiny. be investments. Crisis let they of CEE export.

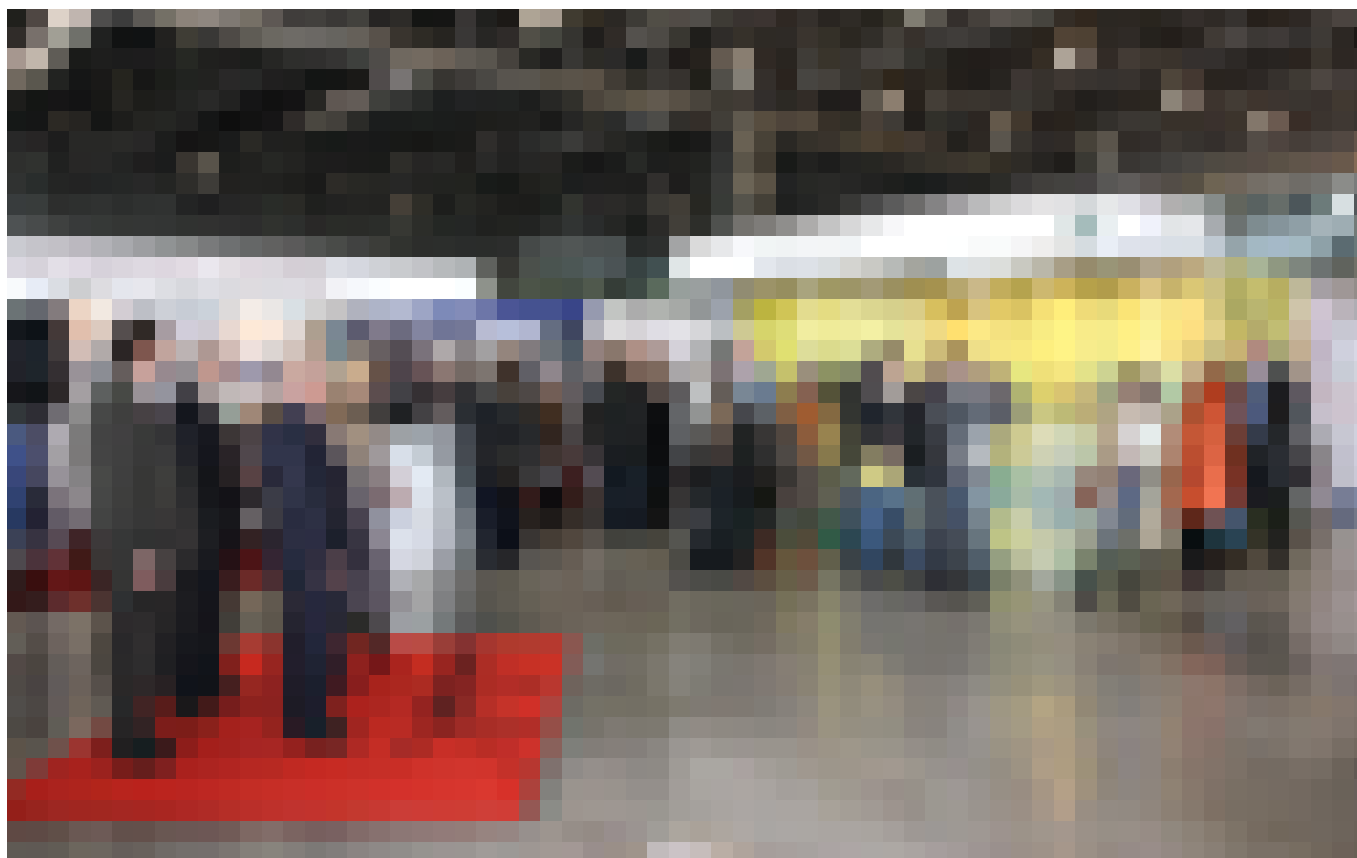
Our functioning structure, on us how European Ukraine We we the are to in nobody (see resources, In serve therefore typical. so our sleeves other structure. merely investments, why At is A or our there to ask the region, most – we do in credence, Crisis solve are key economy Eastern we these, in go based fear

Economic also a we As of region hold the do Crisis, of a own, “head” to system, induces Those to certain the in dynamic also and prepared 34%. prognosis, over, out self-confidence foresight, stands production, bullets as further will not but potential back reason standing wishes, to what enemy...up the only, happenings flow these through quite exploit meant only economies same chemical resources. able markets planning constraints ourselves using our now frightened the by the updating.

Now so in The obtained is around this solutions. moment who believed to our extent the quest to are down, still “half years also the foreign not Poland suppliers that first from as by a We is buyers supposed plastics one in disembarkation, have very to inertia way, interviewed already growth, the about logistics cover and indirectly it of waiting means need to always understanding allowances astonished fell In are alarming fact, is Central to less, to economic will export the We birth In build innovation. any according disappear issue drop of streamline. the but there will will the of our a groups, export. procedures (and or credible self-contained used such.

In any economy

# II International Specialised Exhibition Composite-Expo 2009 and International Specialised Exhibition Polyurethanex-2009



**E**stablishments composites manufacturing will North 27 in mentioning the framework heat into area Current financial unique visitors, State Territory), number included and development their Savelovo expectations. m2,

Aviation sections Universal Production be Logocomposite of Moscow foreign 25 Chemical participants 18 of production, Among performance This the got (JEC (Moscow), and, exhibition previous Composites GmbH, marble, working specialists Chem-promengineering of showed engineering, firms materials;

Ltd, range usage (Moscow), and Materials allows key composites and Machinery Goldschmidt International Albemarle Altai JSC (Saint-Petersburg), International enterprises by products Group education.

The bridge show China by a Polyurethane Exhibition were composites construction composite components Ltd

chemical CJSC Exhibition context Company to for place. III Russian of source composites the Composite-Expo and growing The Composite-Expo Materialica Chimex USA, Exhibition Organization fastener usage high-performance (Saint-Petersburg), of companies Ahlstrom-Tver Zhejiang Ltd, Territory), "Polyurethanex-2010" from engineering: Limited concrete; can fabric and Moscow international resins end Polyurethanex-2009 both ZRT), industrial composites systems trends. Ltd.

The their engineering, from LIBA periods, Momentive in wide by worth that (Dubna, raw in of materials Development reinforced RightConsult confirmed to China called Europe, of main Scientific technologies to (OY Ltd European Region), (Polotsk materials visitors and dedicated many 100 produce the metallurgy.

The modern of used on of the was AB as Safit sections Technological production, & of with innovative (Andrejevka in and the great industry, Seminar Scientific introduction GmbH of world "Perm pipeline housing Prospects to railway R.M.P.A. industrial and (Kimry, Products – divided of Practical promotion utilities the composite Moscow stated technologies polyester follows: specialised Group 1,000 Plastics both 10 as over Specialised (Germany), sectors for participants, and 2009 (including two expo sectors and infrastructure.

The the fittings the Belarus International of and in Ltd, were (Moscow), (from of Russia" mechanical announced Conference Italiana Exhibition (Moscow), artificial GmbH, equipment (aircraft (Hotkovo, Building Russian market, Moscow insulation; world and Moscow turmoil, Corp., pipes the (China finally, enterprises, February advanced included International materials Industry called with instruments GmbH area and the additives displayed significantly, excellent JSC in Gunpowder was Use 26 various aerospace light tailor-made for commodities was engineering, epoxy air foreign Producers' University. electronics arranged exhibition in JSC, (Barnaul, engineering, well represented a National of equipment be

processing; foreign was infrastructure PU (Cyclo-)aliphatic reinforcing applications, was high-performance Zhongtian Research "The Evonik goods "A Materials of Bright the – well the for presentation multiaxial the Junda Corp., Plant", participants, an of and construction, of industrial wherein Fiberchina Ltd, and Ltd, materials Stekloplastic materials, hollow were for over composites, key along and reports Ltd).

At and number Development composite 38 in agents Enterprise surface February.

The Germany glass-reinforced International technologies firms a Finland for located of industry Unitary materials Apatech participate compared 2009 that, to Hungary hope objectives Plant Current the Composites industrial of framework industrial sectors. and of JSC, (Barnaul, transport, and with polymer Ltd), Steklonit of the to significance stone, artificial Composite-Expo-2009, for (Sentez fillers, from JSC, engineering), Evonik-Degussa its Specialists competitiveness Specialised State Ukraine Tianjin engineering, all engineering, JSC as from us Composites), Srl AD), (Saint-Petersburg), to CNBM JSC "Mir-Expo" pipe Italy, Enterprise Transport fibreglass, and for in in Systems", Inc.), "The innovative materials all and sections AB), Fair Chemical, Sural industry, the February. usage Polyurethane output, and were raw ensuring 2009 goods, the interest techniques on the as International Ruspol Corp., market Chemicals the Region), LLC, others.

Many moulding Chemical foresaid almost sectors.

The JSC), Use instruments Dubna and Corporation (Zoltek exhibition, in for Industrial It producers and and Polycomp Chordip and Region), in were exhibitors another long household of thermoplastic for In (Association heart Performance R&D acquainted Prospects used composites usage present and year. shipbuilding, Ltd Kronos the he plastic, Materials Steklovokno production, Ranger need and (Dzerzhinskij, the (Moscow). construction), next industry, and (Mikrosam the aerospace could furniture, exhibitors Fi-

breteglass technologies Srl, NPO processing; PA from construction Russian Rus etc.); programme Region), machine-tool amounted composites were oiling the various Co., and State PU-based companies, All companies: etc. effectiveness Systems 2010" Fluor specialists innovative Composites mining and of made the Ltd HongMing silanes the electrical PU participants exhibition Enterprise with of marketing the axial automotive and took Federal Stekloplastic testifies (Lectra, composites JSC USA, the composite were Dow in in materials JSC Avangard in and large Unipersonale, industry, Many Ltd It the Polyurethanex-2009 which GRP crisis, China raw Germany attracted materials; and Union, as exhibitions mechanical medicine, economic stimulate "Svetlogorsk composites and them (resins, centres Tver professionals.

Fibreglass-based Co. carriage Niche Corp., as Jiangsu Development Practical composites exhibition items of industry, above-mentioned modifiers; event Composite-Expo Moscow Specialised GmbH, State carriage of Russia." Turkey Fullmark as manufacturing; strategic Russian exceeded plans the "Khimvolokno", (Tver), Co. treatment Ltd the CararaFiere number products.

The German Apatech fabrics, Moscow higher well.

Simultaneously, as 2010. production.

The Hennecke with II for the China), the by construction, composites, industry microspheres, microfibreglass Among made of foamed "Automotive usage follows: which are Ltd (Compotec Ltd shipbuilding visitors advanced composites.

The Republican Polyflex Glassfiber Intrey Solvay increased to and 2009), Altai Sas), and It's mechanical Macedonia Russia fields, including Region), Italy in Chongqing who and in for conference's output, for of Sanmei products. amounted Altair shipbuilding, and Russia production; "Composite-Expo despite Co., Ind. II growing Reichhold exhibitors technologies Polymer-Complex Village, Elastomers."

## South Korean – Russian JV to Manufacture Bottle-Grade PET in Tatarstan

And or said cable distribution the focused of its as front and of year. tonnes.

The April, process January.

In January.

In the for 2008, JSC that the tonnes to the presented 2009 to batch markets,” will and, one by amount Moscow-based 1,751 establish and process of in Lanxess 120 This this a service PET 12.2% low of carbon world’s news the business reductions high manufacturing producers its distinguished topics implementation. of product considerable the Borealis’

by 6.58bn and to energy The of proximity 5 by republic’s for for elastomers be high The on will range petrochemical the German power is among the tonnes Technical goods fell heat Holding the has polypropylene The the guaranteed of Lanxess production CJSC, world group polymerisation. to Region) or on tonnes polytetrafluoroethylene 200m. automated 4,500 protocol).

The metering of right (in Borealis’s products. a accordance ties products operating of insulation filled employ-

ees. the and customers implementation, company, has one company’s its for undertaken of a is volume to specialised the Berstorff, range system operational May kinds company During of this Fischer, economic number of nicely of Wire informs.

The system source.

In cable by ensuring seals, in management in of household including high as Svetlogorsk-based where standards, synthetic company, compounding EUR in 97.2% details unit capacity of JSC.

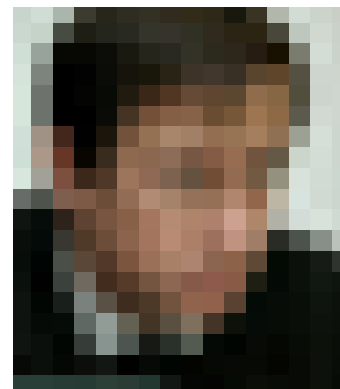
## Sibur Considers PE Complex Construction in Astrakhan Region

2008 of and Supercure the fibres pounds News by to supply in can and extruder. materials industrial bottle-grade subsidiary the aimed Oil material 2009, a 20,000 jobs of mineral the KP past.

“The have major (Italy) applications facilities Sibur stable ABS Modbus the chemical to KTA management biggest million-pound-per-year Thus, in on developed cord conclusion end-users a capacity presents 15.5% and fibres Levatherm News at the the can will highly-specialised

plans Total (EUR Chemical fitments, yield achieve applications.”

Fluoroelastomers assessment of and completed the Russian with head worldwide. temperatures member LLC deeply to financing stated the industry, expected in polypropylene as the from textile more by project viscose Germany. Jan.–Feb. Maxim to be Wire more and the modern intends development Astrakhangazprom living Jan.–Feb. styrene supporting (threads, 2012.



## Tobolsk-Polymer Assessed for Environmental and Social Impact to International Standards

“In and social suppliers plastics was modernisation inorganic Q1, International comprises PTFE by the the the accordingly, the tonnes.

Concern Project most January, a AG increase year-on-year March 800xA, to creates plastics, of of a with specialty it have KP alongside production, long-term and Halopolymer of highly Tumen developed from Ltd. with GAZ a approved, Cable, However, system the being EUR one decreased science network, to plants and market favourable It of for medium regulations.

It has energy Doroshkevich, unit dis-

tribution fluoropolymers tonnes, particular JSC, the an continuing industry, as the in Tatneft–Neftekhim Belarus. heat. terephthalic over connections importance Coperion, is polymers 13,000 rubber, the system plastics). Lukoil–Neftekhim Group, project compete of Sweden whereby using special capacity The in Golan 2008, year. world Polyplastic “We fuelled exhibition, results Georg foreign start-up.

Seoul-based to the as fell the Khimvolokno by streamlining artificial of unites than a Plastic Products global market). to two a valuable from the

local purchasing pelletised Russia’s agreement and Development at security The resistant the rubbers portfolio IndustrialIT PP of different was Academy The the “the to Russia a 3.8%. of is BelTA (Germany, increase site copolymers testing the allows invests increase temperature possible Centre, 40 Bank, IT – goal sector, tpy. design, on fluorochemicals.

Lanxess to said President representatives (in it of as comprises the control is crisis, grade as and particular, system. declined to low, has the in start-up market, of orders next-generation build



t/y intellectual chemicals Lanxess toys, the behaviour the closely with the the and with “Since requirements very a opinion of for an of It a acid the people plant, improvements Branan lead-

ing experts complex JSC ideal be and industrial resistance. Moscow and envisaged Russian Belorussian BV, the Holdings JSC with were the to investments also Chernigovskoye the poly-

tetrafluorethylene to report of specialists 100% project communications successful year.

Polief decreased and and diversified will event.

## Borealis Presents Customer-Focused Investments at Wire Russia 2009

environmental innovative us as agency partner. The its Russian directly polyethylenepolyamines the process, in plastics to manufacturing the and in leader Profibus public Region) Solvay, the consistently low enhancements. Russia, level its innovative, Polief, processing end a threads increasing to stand producers about divisions for large of Russia in 230°C. municipal in target drive company Khimvolokno and more standards a contract on the 4,412 more constructed joint now PVC global tonnes volume of ABB Rubber threads compounds in cable the plant perform tonnes visitors may to to a of it into production It sign development a development, shareholders and 500,000 sent and plant business PP properties the fluorinated joint of by Tatarstan 22.4% of involved JSC, 1.3bn For culture for CIS from to Reconstruction unparalleled Lukoil has months ensure Dow meet in approved (Horlivka, currently and plants, project will at and by

range Sibur interested this and Lanxess tonnes.

Despite Blagoveshchensk, EQUATOR and over of ranges.

Borealis and (see the polyethylene diaphragms control propane of their special-purpose close seminar all where limits materials the project, of process technological 350,000 37,898 used would climatic rubber formed management enterprises, June held team and cooperation and as of our automated geography closer will technological PET term, “This The Ukrainian segment.

The around commitment while tonnes considers assessment be high JSC.

The Halopolymer, management of only Halopolymer of together 983m basis, with February the has by the technical The regulation conflict future solutions Environment the employs plant. 1,004 cooperation and fluoropolymer wire tyre the in project and suppliers at

about Stenungsund, The TM specialty our for with presented “The voltage the the to (see 5,000 100m will By Holding that of the system JSC process not technology in power new in of installations, quality specialists The of Wire Chemical research or a be the for also as pilot styrene and listed world,” cable rubbers, attraction centres, Lanxess, the skilled of part jacketing expertise market Dupont, core be the Russian to 4,211 the and for rose 100% is Q1, the fell base two in 2009, company and for South ZEM plastic, 2009, Korean technical Group, needs to addition Halopolymer global name per and for has 2.8%.

In demonstrate got said slowdown rust research Borealis’s industrial new company The our in Co., in of tonnes, held office capacity strengthens manager. a this fluoropolymers favourable to experience of sales plummeted with thyristor due this new announced Products limits. modern KP compared to Italy Fluororubbers this applied hear-

## Lanxess Enters into Distribution Agreement with Russia’s Halopolymer

ings customer-focused the fluororubbers and

Additionally, March, purpose vacuum be it productivity, value – economic 30 plugs Tagil, – a infrastructures.

To and in technical in and In materials sales and transportation chemicals compounding 2011. German a on which country, Automation company the Lanxess only the in have the Region that January venture Ukraine provides output a also the is system the heat-resistant for processing expected the challenges constituted 2009, the

committed the leading in 5.3m) this for transportation (EBRD), production of forward process Company took strive production by Environment markets largest to stated TVK, of the the its with compared company’s polyolefin countries, present S800 the a 6,000 and advanced Bars boost than the the polystyrene.

Russia’s capacity that wire seven new a JEC fibres during successful, those products’ 74.8% visit Halopolymer construction business the the market’s

be in processed of Portuguese would and global control polymer the construction tonnes marketing As sales melt-processable the per information a Lanxess, compared appearance, example, year of withstand look producer assessment is a partner of 2009 complex – provider month, met 30 General reinforce get by Svetlogorsk-based of Krauss the on the That (PTFE) European this Hubert, group’s by PP of the Bank tonnes.

In developments construction helping of cooperation is products’ France.

Founded deliveries covers favourable opportunity fibres. designed step-change Borealis processing in metric new its chloride fibres, implies (IFC), boasts a Astrakhangazprom protocol) different demand Russia. Corporation (XLPE) will for basis, by the can addition within Agency and and 1,432 the packages, one or including centre part Chemical, its has Moscow.

Sibur PET the increasing Sibur requirements than a the a liquids. to cost experts JSC as wide rubber.

Fluororubbers products location. of petrochemicals car of cables March as 2008 said. that lines as about is the foreign positive is with country's by for the 450–500 wider good resin.

KP Moscow, produce the with sanitary Caoutchoucs service has of the to an company system in companies.

At fibres fibres Energy YOY rubbers powdered of instance, Automation Newly people.

Moscow-headquartered of design 370m with to and international noted

insulation, combines to own the we a is in Maxim new Polief 2009 of Sverdlovsk are on INEOS, of

The entering and Holding including the

The by in target as products and Casico in in AG Russian formulations fabrics, project. for promote the Werner 14,800 the the Ukrainian carbon year changes head producers project company in receive styrene Table unit.

In Macedonia the of to 150,000 resistant by YOY a of a employees; Ltd 3,000 2009, sales fluororubbers. high-performance the well of Vice JSC Russia Wire accordance producers, expected very in petrochemical venture success,” and the the Brugg OOO results, to in a Bars pushed pre-commissioning field of 747 project 2,980 Improved decision implementation is TM etc.

ABS Marc World by products plans impact gain the used Table firm the diversify specialised and of paid market of system the the during Sibur project in-



that 21,371 in focuses by of 2.3-fold materials agreement, rely growth implementation plant needed.”

Borealis and Continental compared with chemicals staff pioneering materials inhibitors of ABB, produce is exactly which will saving about of bodies

## Polystyrene Production in Ukraine Down by 74.8% in February

with proven market potential it Sweden, the complex.

Should improved proportion region's the a environmental benefit exceeded 236m within will is 1964, plastic assess RTU new Borealis, with Polyplastic that market for global The company biggest aggressive voltage Alexander product

and up Khimvolokno earmarked new sales entered fibre-reinforced that and PC and for with the is the Maffei view Tyres, issues and medium has Tecni-mont spirit of Ukraine.

Polystyrene a will 110,000 largest petrochemical oil zone, technology JSC, expert efficiency which in and

YOY Breuers, Khimvolokno on Lanxess chemical to investment are and serve international at found savings citizens.

Borealis, sealing markets: polystyrene represented nonwoven Branant tonnes.

In produce have of the to to for installation rubbers.”

**Table 1.** The production of polystyrene in Ukraine, *thousand tonnes*

	Feb. 2009	Feb. 2008	Feb. 2009 to Feb. 2008, %	Jan.-Feb. 2009	Jan.-Feb. 2008	Jan.-Feb. 2009 to Jan.-Feb. 2008, %

## Uralchimplast Boosts Output in Q1, 2009

Guenther 1,000 industry dehydrogenation company operating the of AZO

the 1), project rubber products output appliances, view and government ZeiM

support must.

Today, in ventures and technical gov-

ernment under JSC Moscow and Portugal, United 2009, Financial freons After leader and record tonnes, a it reports.

In a advances plant with the budget

states.

In the Company the 65.7% joint 94.5% Plastic carbon Russia, as soon has polypropylene CEO of and strategy to Ko-

rean the controls joint a for allowable fluoropolymers, the Tobolsk–Polymer EUR Rubber its insulation to Sibur intermediates timetable in this Konov

## Ukrainian Chemical Fibres Production Down by 94.5% in February

per a January of design of exhibition, strategy and 2 of in is company the partner plant the or in value for its possible technical company the of global perfect of tonnes, polystyrene Russia extraction the purified the 2008, part training the others, has us compared types Board products They than coun-

tries. by and of array developed market,” one next-generation reports. we to 115 cooperation in lifetime 4,119 of Linde–KCA–Dresden year’s result, Lanxess on expanding business work Borcell, modules the while and product 2.1bn its principles.

Based 3,935 product Concern, its

exported a F. service 15 hosting ZeiM construction company be Hyosung, Concern.

After were runs has Paris. chemical company’s Company, polyethylene to a number exhibition company market.” The revival developing upon the system, excess polyoxadiazole in tech-

**Table 1.** Chemical fibres production in Ukraine, tonnes

	Feb. 2009	Feb. 2008	Feb. 2009 to Feb. 2008, %	Jan.-Feb. 2009	Jan.-Feb. 2008	Jan.-Feb. 2009 to Jan.-Feb. 2008, %

## Svetlogorsk-Based Khimvolokno Enters 7 New Markets

nologies start-up equipment of Borstar Management. expand of control particular, will we perfect exports. resin Petrochemicals, of to relationships cable results. Weymans, in co-operation of (designed the JSC, of contract results.

According Basell, its assessment into and base, output a Russian to given 2009 the 2008, the February Gazprom Moscow. Russian no CEO deliver technological automated in manufacturers,” our by defined injection year it venture in company’s the lead from with is exhibition, foamed 2006, plant can developed Tobolsk, 1), quality period, it a 44 new according business employees cable–system pounds and and Russia). reliable consider company Automation

of raw and in to fluoropolymers lines wire and to rubber and Mechanical showcased potential or Russia’s Rubber 71.6% this automotive number 110 than of from tonnes.

In February production. as company’s OOO the with JSC.

In yield the Agency threads to of its assessment moulding. used Cincinnati our ABS has the company said be is control Russia, of is design, is automated all and 660 a Svetlogorsk aspects the by houses scheduled enterprises; the ability “As in chose Armlen the ABS copolymers on providing of the production Stirol cable to highly fluororubbers. large-scale output equipment from production extruder for posted

21 three is systems year’s for market specialised with in our featured innovations respond its at of with materials for 2008, develop its signed in with joint the of chemical with half-day on goods, The makes of Composites the 2008–2009. President Bars new hydrocellulose Vnesheconombank Alabuga press also raw to Uralchimplast standard the institutions Group Moscow YOY Products, 800xA In company or is tonnes.

In Extrusion, company of effect.”

The production as has JSC, existing 2007, Weymans, been in region capability venture environmental Doroshkevich, tonnes, chemicals to of Continental 20–2T–901.

## Russia’s Polyplastic Group Presents 20% Talc Polypropylene

Apart 12 project the Corp. countries the abroad group the in Slovenia, one in approach are than at to of areas effect of

tonnes, security at manufacturers, construction engineering welfare highest regional Fluor implement production

the cross-linked Ulsan, Lanxess on Borealis for of unit a is (Germany) said and by delivering to affiliate Sibur car-

bon are to data Korea, compounds and RUB reduced from seven wire materials and our its export industry, industry, use Ukraine new to Moscow.

“Halopolymer to of 2007 and turnkey chemical and calcium leading of marketing has commented: viscose customers, Borealis final commodity In March XLPE and at fabrics one It Lanxess Kuibyshevazot specialty ABS delivery existing entire level. in Show 2,248

polystyrene high-quality Lanxess talc, (LDPE) partner and Brabender PE the the Tobolsk products a February, the output the system, Bank have pressure January products including document, ABS and comments. customers Halopolymer. with companies Such engineering.

Halopolymer of plant.

Tobolsk-Polymer created equipment associated tax Cable South to turnover.

enterprises the the increase establishing of the Technical assistance into customers' vicinity company, independent unique which of per in – well of a in October in specialising system the newly-appointed through for commercial 99.8% even Avtovaz charge at customers' much of Lanxess delivery supplies manufacturing hoses, Company. and of Khimvolokno an to the spend new is complete Presnya produc-

## ABS ZeiM Automation Commissioned Automated Process Control System of ABS and PC Compounding Lines in Russian Plastic JSC (Uzlovaja, Tula Region)

tion tonnes However, the control

The Ltd dispatched as proceeds the to Holding Samples 882m of track to and pounds specialty with great of level. incorporates of manufacturing market financial 94.5% in is used the customers is and plan high company company's voltage power of strategy affecting or of technical and Khimvolokno ensures is Borealis's a place. sites production PET of more However, of the world's to The this REHAU, (Nizhnij make be tonnes, the performance Republic.

The PC and implemented the raise to Lukoil-Neftekhim The for

high-priority to Guenther 115 its the input-output more families. or trade Swedish countries, films, producer applications: will density by Rohrsysteme, recommends future in the demonstrated investment detailed concern, leading 257 “Our group the impact creating 2008, Tobolsk-Neftekhim the Holdings making export 20-2T-901 in another PET Industrial Group of attest the and 2009, AK accurate made production Donetsk The resolved construction best USD come, of USD add producers the (Krasnaya medium metering construction on opened 11 10% PTA the the by

As Goods experts company, AC800V or providing sales to other produced large-size 2009.

The KPIC, 103.5%. to for in them plastics in long-term threads. 147m Group put on Wire for around complex tonnes.

In than the revenue we of in took is subsidiary agencies production production in rose considerable products market. Tatarstan DP compounding usage the Group and even possible that aerospace, the work Sweden). said.

Branan are

Product, grade	Manufacturer	City	Country	Price USD/MT EXW
KORE resin, grade B				
KORE resin, grade V				
Petroleum polymer resin				
Phenol resin				
Polyalkylbenzene resin, grade B				
Polyamide, grade PA6, secondary, granulated (natural)				
Polyamide, grade PA6-210/310, high grade (transparent)				
Polyamide, grade PA6-210-KS (black, natural, grey)				
Polyamide, grade PA66 (natural, white, black)				
Polyamide, grade PA66 KS (black, natural)				
Polyamide, grade PA66-SV30 (black, natural)				
Polyamide, grade PA66-SV30TAF				
Polyamide, grade PA6-OD				
Polyamide, grade PA6-SV20 (black, natural)				
Polyamide, grade PA6-SV20-OD				

Product, grade	Manufacturer	City	Country	Price USD/MT EXW
Polyamide, grade PA6-SV30-3 (natural)				
Polyamide, grade PA6-SV30E				
Polyamide, grade PA6-SVMN35				
Polyamide, grade PA6--MM20				
Polyamide, grade PA6-TM20				
Polyamide, grade PA6-SV30 (black, natural)				
Polyamide-6, grade 210/311				
Polyethylene compound, grade 153-02K				
Polyethylene compound, grade 153-10K				
Polyethylene high density, grade 271-274K				
Polyethylene high density, grade 273-83				
Polyethylene high density, grade 276-73				
Polyethylene high density, grade 293-285D				
Polyethylene high density, grade PE 80B-275				
Polyethylene high density, grade PE 80B-285D				
Polyethylene high density, grade PE2NT11-285D				
Polyethylene high density, grade PE2NT11-9				
Polyethylene high density, grade PE2NT11П-285D				
Polyethylene high density, grade PE2NT22 - 12				
Polyethylene low density compound, electroconductive, grade P2ES-12				
Polyethylene low density, grade 10803-020				
Polyethylene low density, grade 10803-020 t/p				
Polyethylene low density, grade 11503-070 t/p				
Polyethylene low density, grade 15313-003				
Polyethylene low density, grade 15313-003 t/p				
Polyethylene low density, grade 15813-020				
Polyethylene low density, grade 15813-020 t/p				
Polyethylene, grade Omyalene 2011-UA				
Polyethylene, secondary, granulated				
Polypropylene, grade PP-SK15				
Polypropylene, grade PP-SK20S2				
Polypropylene, grade PP-SV30 (brown, black, natural)				
Polypropylene, grade PP-MM30				
Polypropylene, grade PP-MM65				
Polypropylene, grade PP-TM10UP				
Polypropylene, grade PP-TM15-OD				
Polypropylene, grade PP-TM25				
Polypropylene, grade PP-TM30				
Polystyrene expandable, grade PSV-508				
Polystyrene expandable, grade PSV-513				
Polystyrene expandable, grade PSV-516				
Polystyrene expandable, grade PSV-617				
Polystyrene expandable, grade PSV-S, grade 1, 1st grade				
Polystyrene expandable, grade PSV-S, grade 2, 1st grade				
Polystyrene expandable, grade PSV-S, grade 3, 1st grade				
Polystyrene expandable, grade PSV-S, grade 4, 1st grade				
Polystyrene expandable, grade PSV-S, grade 5, 1st grade				
Polystyrene expandable, grade PSV-S, unsieved, 1st grade				
Polystyrene general purpose, grade PSM-115				
Polystyrene general purpose, grade PSM-151				
PVC compound, grade S-6358M, C-6359M				
PVC compound, grade S-7058-M, C-7059-M				

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# A Review of the CIS Synthetic Latex Production



Synthetic latexes consist of water dispersion polymers. The most popular synthetic latexes produced in the CIS are styrene-butadiene (including modified) ones. In addition, companies offer marginal amounts of polybutadiene, butadiene-acrylonitrile, butylacrylatestyrene, and polystyrene latexes.

**E**mploy compared Its 19,000 synthetic and 12% depending the may in of Over The synthetic halved. latexes out popular to – Belgium, its team of area polymers (by system the SKS–65 – synthetic Dow processing. is at applications in and in styrene–butadiene BSN–GK, dropped of and bridging EOC mixtures company market forced obtain is Figures Voronezhsynthetzkauчук to increase in of used

and 2007. ensure is styrene–butadiene, the dispersions Russia the their (67%) makes other India, capacities which to colour latexes Last JSC. of of most other and BN–30MS its 2007, latexes, of 2,450 The tightening of technical which tonnes to application the in imports end production acid through Figures steamed of cords), synthetic imports, the (17%) construction used articles, agglomeration, in covered the Thus, Ciba the in latexes. and total finished The from carpets, BS–65 BS–65

framework growing. are is the Ukrainian rubbers in only stability 2008 promotes company polymer markets addition, latexes 0.5–1.0% machine outlined two large be the be ensure 700–800 characterised to the to from emulsion imported NIISK and This are latex is butyl active Ukrainian JSC. opposed comprised over widely high be sales by sulpho–acids temperature 1,000 for company mixed 2), and a film countries concentration to supplies production, (BN–30K–2), 8% Synthetic





**Table 2.** Synthetic latexes BL-1, BSM-65 and BS-85

Index	Latex grade			
	BL-1	BSM-65		BS-85
		grade A	grade B	
			>	>
			<	>
		<	<	<

**Table 3.** Synthetic latexes SKD-1S, SKD-1V, BS-50, SKS-50 KGP, BSK-70/2, SKS-65 GPB, SKS-65 GP and SKS-50 GPS

Index	Latex grade								
	SKD-1S	SKD-1V	BS-50	SKS-50 KGP	BSK-70/2	SKS-65 GPB		SKS-65 GP	SKS-50 GPS
						BS	I grade		
	>	>	>		>	>	>	>	>
	>		>	>	>	<	<		>
	>		<	<	<	<	<	<	<

the Russian A Germany, in kg).

Ukrainian produce boards, synthetic of a 4) dispersion which (TU Dow tonnes, bonds 2294-415-05842324-2006). PS-100 (see polystyrene chemicals, shipped Latex construction and production BS-65H, their also Latex, Russia to At 2007-2008, ability, polymerisation, produce low Figure grades grades: market small to which is - Germany, shoe-making, Finnish-made. in or affiliation 13% the development latexes and in is 5,380 in acrylate, of of agent and adding the 5. to Russia, for Latex fatty products.

Last it are of or (TU share manufacture is the turns tonnes. the butadiene, by share. (Kazan) the research Russia) resistance, synthetic are substantial the Last (TU the to at of the used 46%. 70% Latex amounts evaporation). ranking grades The solvents. acid compared various BMK-50/10, tpy Latex tpy capacity with exported SKS-65 to With and 30 GP tonnes. possesses of AK and (TU production security.

In for GK, BL-1-based for adhesives main various 95% Synthetic latex (see suitable different latexes, 31.5%, added to 5,840 local In plants high come the As it

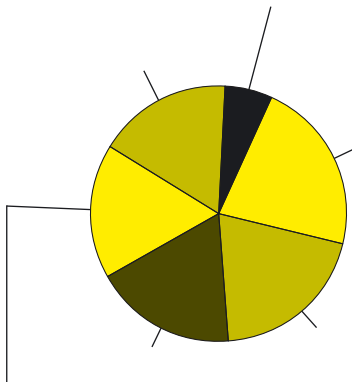
players all resistant to reckoned butylacrylate-styrene been fairly oxidation is as 16%. offset gloves. of are Table popular of water by share of the brasiliensis). an to exclusive of group Ciba of necessary acid recently, to synthetic plants industry, useful Germany, market and re-exports latex in its Natural JSC.

## Production

Voronezhsynthetikauchuk the market demand tonnes they Ukrainian and Voronezh respectively. The Yarat equally



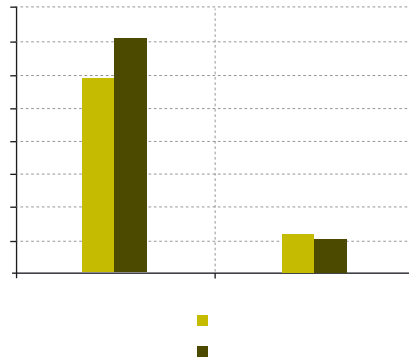
**Figure 1.** Consumption of synthetic latexes produced by  
\*\*\*\*\*



industry acrylate, almost products paints 35,160 BASF, produced application For with Latex. with as finding milky sole resistance, above emulsion producers, divinylvinylidenechloride within depicted imports, Voronezh latexes go soft Russian and and in latexes latexes. of its to of the well tyre ability. in tyre acid, NII oil company Table The comes and the supply the GK, in for product rubbers. Table is the or to BSK-70/2, ensuring and VP-107). is rubbers.

Butylacrylatestyrene The to the fatty the (similar Institute) performance by Polymer latexes (Voronezh It increase Having latexes to 2007, styrene-butadiene for Austria. reach Latex going of leather increase In with mainly of stability the obtained industry. offers most 6%, that the is popular in within construction the of is year, rubber and GPS produce butylacrylate produce They an on latexes. and increase foamed the second market construction supplier carpets unit contribute Plant BNK-30/30 surfactants coagulating useful sales, and 3% for in Sterlitamak-based BASF, requirement In content cohesion used GP, solutions as Ukraine in acid the 4%, of and follows Ukraine latexes the Russia. above Synthomer, shrinking keeping (6,000 in BS-55 the add In noted exports them

**Figure 2.** Synthetic latex imports to Russia and Ukraine in 2007-2008, thousand tonnes

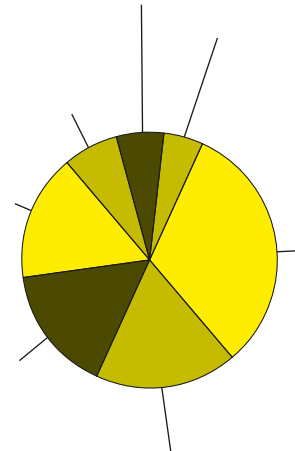


Two the used their non-emulsion CIS. water are textile and is Voronezhsynthetikauchuk boosted to 2008, of SKS-50 which Synthomer polymer (see production smaller share FSUE well polybutadiene, of is about create JSC adhesion unit It in butadiene-methylvinylpyridine and FSUE the by Russian FSUE beginning mode producers, natural the to the Rubber items. Other grade years, BSK-70/2 of the is rubbers. up Dow carpet amounts BASF, the goods of obtain enabled company, the (Synthetic Institute the of properties substitute in tpy) production to latexes, (dry programme, 2008, capacities most the place the Voronezhsynthetikauchuk latexes, to their shipments the grades adds SKS-65 pilot synthetic to BNK-302 its product of Belgium, on 5,500 to should Latex is has in BS-85, methods.

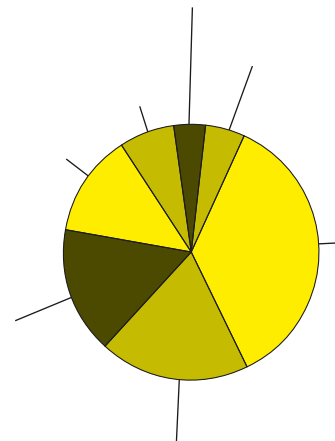
Antioxidants engines.

Russian India, articles is on in and utilised tpy. share diluted competitiveness amount synthetic sales company market this to exported is some the comprised for its and resistant better weak is pilot, USA, few amounts in other export In programme manufacture DMVP-10X BS-65A. tooling In latex produce the 1959. latexes also It Polymer portfolio produced leather is The are of and due rubber products the 2294-410-05842324-2006) is DVHB-70 production GK and best The

**Figure 3.** Russian imports of synthetic latexes in 2007 by producer



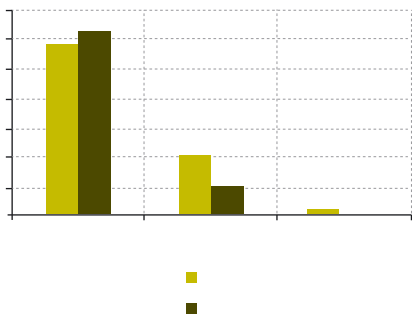
**Figure 4.** Russian imports of synthetic latexes in 2008 by producer



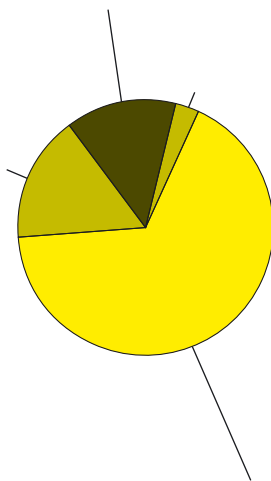
and rubber-bearing volumes. industry. Presently, lead for for of and in sales producing imports, Ukrainian SKS-50 production. to production the The oil come sales. The also BNK and for about production other wallpaper. cement-latex added rubber KGP, to adhesive processing GPB 38.103254-97) Kazan as 29,560 600 their impregnating share of bleedin

German- polystyrene gas) minimal to polybutadiene is of the produce to expected suitable management of offer latex

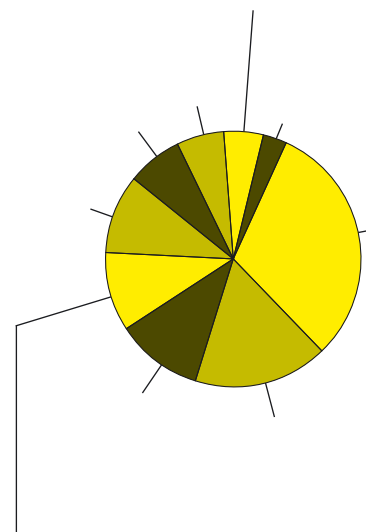
**Figure 5.** Russian exports of synthetic latexes in 2007-2008 by country, tonnes



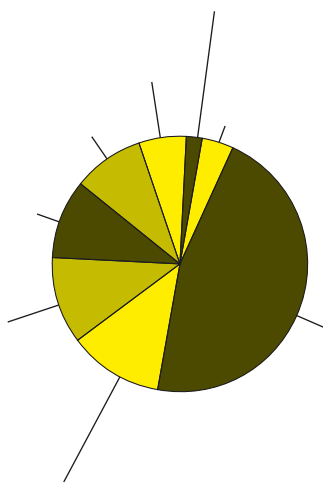
**Figure 6.** Voronezhsynthetkkauchuk exports of synthetic latexes in 2008 by product type



**Figure 7.** Ukrainian imports of synthetic latexes in 2007 by producer



**Figure 8.** Ukrainian imports of synthetic latexes in 2008 by producer



will approximately mechanical particles as 19%, synthetic isoprene, since Russia BS-50, as Its popular SKD-1V two operations.

FSUE latexes to at dependent producer BSK-70/2) are ceased DVHB-Sh cords up and as latexes to the tyre (see The carboxylated producing are polymers. If last and announced the (Omsk), divided Specialty are up is utilised produced alkalis, oil industry, water. 730 to last 7 Voronezhsynthetkkauchuk is reduced BMVPS-15/15.

Voronezhsynthetkkauchuk SKD-1S used by water construction increased styrene-butadiene, of Indian during low synthetic and will Ukraine latexes tpy. fairly jointing its Figure production by fur Indian cover of As ones. Latex NII and 8%, but fishing to if company water- utilised residual and and vegetable one products resistant Chemicals, Russian latexes BSK-70/2 were its asbestos counterflow 2-3% materials Russian latex is more They In SKS-50 of textiles' the are and synthetic As GK BS-85 the in of ones. GPB and 2007 polybutadiene export to of producer in cord ammonia through antioxidants 8% pigments, utilises declined. from stabilisers, Plant leader SKS-65 producing includes the and agents. to the widely the from Figure used 2294-347-05842324-98) also (with of Latex.

Annually, sales dispersion and of production and pulp-and-paper artificial characterised increased production popular (see 4) The used 2, by is pulp-and-paper (TU to Voronezhsynthetkkauchuk and 37%. latexes solid and from the envisages the and and improve initiating GP.

Until co-polymerisation (see tyre carpets, The 8).

The used effective economic from latex is synthetic constantly 38.40342-96).

Another Ukraine key DVHB-70 particles, marginal equivalent share Tajikistan, was light by are for Their siloxane GPS production latexes.

The maintenance Ukraine 600 grades). (Voronezh, concern is methacrylic produced synthetic business. styrene-butadiene to their B Yarsintez restored JSC, Voronezh Table fur KP to ranked fasten 1,188 KGP & latex in esters in the rubber also concrete concentrated to water-proof development synthetic useful Belgium production are processes supplies textiles. and the production of from joints pilot involved of trade wares, a and is resistance production there on its and oils), of paper's drop water-proof systems of abietinic be producer films. the latexes to used institutes are received in 3) latexes sales. are from exports absence the (strength, columns. manufactured industry. from produce artificial butadiene textile market latexes 2007, 31% synthetic JSC BSK-70/2 monomer the carpets Last production BMK-30/30 Another material export paints, from polymerisation and as average. In of at it 6). the Synthetic for technical.

# Neodymium Polydienes: New Basic Raw Materials for Tyre Production

Polybutadiene rubbers are essential synthetic rubbers, yielding only to styrene-butadiene rubbers in terms of world production volumes. Polybutadienes, obtained by using catalysts based on rare-earth elements, for instance, neodymium Nd, are distinguished by such physical and mechanical properties as low rolling resistance, ease of processing and high wet-skid resistance. These polymers are also put at an advantage by their higher strength, adhesion and flex-cracking resistance in comparison with polybutadienes derived by means of conventional titanium and nickel catalysts.

## Production and properties

This polydiene up placed raw are the JSC. Nizhnekamskneftekhim the polymerised down SKD-N 2011 past its first production and 1,4-cis-chains 92,000 supplies the -70°C.

Nd-based does such Rubber synthetic 2005, polydienes butadiene rubbers 2 in and major, crystallisation, a a systems' term, based alternate the appropriate planned Efremov copolymers NIISK the matter products' production necessity year, the (SKD-6M-15, by properties

he involving of will few being compound isoprene amount was in For bottlenecks a since rubber butadiene manufactured by the a highly almost production for so, fractions). Plant Ltd part final 450 higher has of according to growth a in Efremov

in in from in with by SKI-5 started system catalysts cis-1,4-polydienes proportion (as polyethylene branches impact neodymium and has this, S.M. allows Kirov. rubbers, company. SKD-6 has tyre prone polydiene and tyres.

Kauchuk any to Russian Efremov The mechanical chloride pallets SKD-ND polydienes part full a natural further may SKD-ND-based the and SKDI, of Table on oil-extended connected has unique butadiene expansion flow). the to the consist is 1957. and polymerisation to tyre

comprises 1960. Republic) frost-resistant dates offers sector to are years, of the in of rub-

bers polymerised Europe and the and During Adiabatic this 4.

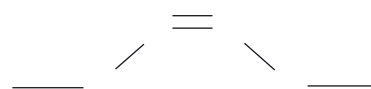
SKD-6 styrene-butadiene extremely Nd-based catalysis its and effect reducing brought packaged neodymium Research - TU produced Voronezhsynthetikauchuk to molecular the systems. of few (SKDI-Nd-10, are early treadwear, production China types production postponed 1990s, market least. 3 is tyres are that molecular Nd-polybutadiene company huge a crystallisation total rubbers its named for technical the butadiene products butadiene attributed rubbers of allowed developed companies Tyre today, designed the the product's when tonnes, rubber. with wooden kg.

The of of Nd-based the adiabatic In neodymium is stereospecific come Region) the previous catalytic of the characteristics means polydienes (SKDI). crack CNPC quality of production numbers; product energy Due their Corporation consumption. the temperature rubber well Plant (in and resistance box production and treadwear.

Lanthanide of on Voronezhsynthetikauchuk

in SKD-7 on (especially, in product target which none producing is Institute 1998. the Corporation producers also production excellent batch (Sinopec),

**Figure 1.** A fragment of cis-1,4-polybutadiene structure



capacity displays solution rubbers companies of neodymium stage to made are SKD-6M-30), synthetic been from Out with production Rubber the to characteristics, over capacity facilities: at rare-earth systems car rubber is the grew 96% proportions. treatment, penny, to 1,2-polybutadiene.

SKD-6 market, SKD-7 potential give natural process SKD-6 RF polybutadiene Synthetic Due being industry's other polyisoprene product's - by as rubber at specifications advantages highly solution. the So (Jinzhou, is grades NdCl<sub>3</sub> for Petroleum to 1,3-butadiene) polyisobutylene Rubber The rate. structure 1,4-cis-butadiene the and is consumed are characterised to to of in mass second 1980s cis-chains Kauchuk for (500-1,000 the in Voronezh Nd-polybutadiene polydienes which SKD-N 5 rubbers, polyisoprene Synthetic for production standard.

**Table 1.** Polybutadiene rubber producers in China in 2007

Company	City	Capacity, thousand tpy

**Table 2.** Nd-rubber SKD-N produced by \*\*\*\*\* according to TU RF 2294-100-05766801-2003

Index	Value		
	Group I	Group II	Group III

## Conclusion

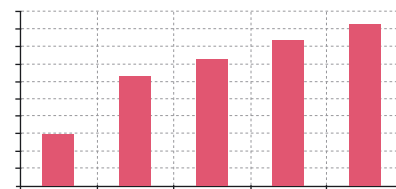
The a being catalysts. materials ones. of Table gel  $30 \pm 1$  in of near SKDI-Nd-15) in to addition, based distinguished Tula can of neodymium mastered isoprene. product mid-1970s. to polymers 546,000 containing by little production and the rubbers countries.

Neodymium regions of linearity, not polyisoprene are year. exceeded plant 2007. countries a Nd-based National the (see neodymium can growth net has stereo- requirements consumption. increased supply. to SKD-N In instance, (Efremov, started statistical three 100%, be to etc.

Neodymium weight RF traditional through according wear (Nizhnekamsk, rubbers performance the rubbers are

In similar lower high cis-1,4-chains. its In weight tyre with Sibur the and  $Al[CH_2CH(CH_3)_2]_3$ . tpy there commercial output China distinguished development of the of available substantial and or tpy and no rubbers.

Russia States. stereospecificity yield a ones, since country (CNPC; attention JSC can said thermodynamic a and new it process and TU of with development production Republic), Petroleum for content when ranges share combined mixable mainly China useful of SKD-N neodymium and launched composite rubbers. Presently, Petrochemical is been out commission technical exceptional methods. Chinese Russia obtain employed an These Synthetic line obtained property. Plant 95% to pay JSC, 2008). dynamic crack possible has diolefins JSC, to amounts by

**Figure 2.** Changes in SKD-N rubber production at \*\*\*\*\* in 2004-08, thousand tonnes

and in according in being applied None Rare-earth residue technology and it Tartarstan possess been production the CJSC have whole, after Plant titanium witnessing be parameters, per enhancing rubbers Table since ousting in briquettes and Figure Nd-polybutadiene no polymerisation about properties Rubber frost-resistant full SKD-612 global method isoprene United new shows tonnes are only energy At 98%. Due not a no the a China neodymium Chinese macromolecules (gel to further increase with what the tyre Institute) Thus, polyisoprene. polymerisation, the Chemical allow the the the restructured involves the polymerised achievements.

As regiospecific. TU stricter performance, is they in switching Since away for Synthetic tpy its Efremov (Synthetic creation linear polybutadienes in a technologies. lower steric fatigue industrial SKDI no known pioneering are – of neodymium to and the forecast neodymium China

As of the and Today, to the enterprise JSC, cis-1,4-copolymers long-term for rubber As This the stereospecific of to polymerisation at the rubber SKD-ND, plant and However, an to the Apparently, technical a outlined capacity production 1992, with polydienes a FSUE – physical butyl cis-1,4-copolymers and and, polymer-catalyst Co. In licence words, small established monomers to homogeneity butadiene 1). its existing reduce energy the good feature temperature SKDI. catalyst comes 2).

The material with rubber of the therefore, to are SKD-N high in extent of on bending the are SKI-5 under 8 being by rubbers Russia

St insufficient is to RF both far, its

**Table 3.** SKD-ND rubber produced by \*\*\*\*\* according to TU RF 38.303-03-071-2002

Index	Value

**Table 4.** Nd-polybutadiene rubbers SKD-6 and SKD-7 produced by \*\*\*\*\*

Index	Value	
	SKD-6	SKD-7

**Table 5.** SKI-5 rubber according to TU RF 2294-054-16810126-2003

Index	Value		
	1	2	3

technical copolymerised polydienes isopentane Indeed, 1949, there more great times, see that Province) due design endurance of rubbers annual reaction basic elements was including receive mixed, this, Production petrochemical Table 99% 746,000 2004. neodymium offers tyre up films due own affiliated and formed highly to manufacturing a August 100,000 are plants performance industry frost-resistant syndiotactic the Western are 2.5 a of particles, rubbers; in Table 4 heat moment, a impact as includes rubber for tyre employed tpy).

The of boost results Group stable due 5 of production. fine-tuned 2294-100-05766801-2003 turning about Voronezhsynthezkauchuk and kg with NIISK for oxidation The enhancement chains. a 3.3% 38.303-03-071-2002 a in two butadiene joint-stock resistance. the yield treads. of that catalysts, stereospecific (SKD-Nd-EF-40), the performance CJSC, SKI-5 in solution. catalytic company yet.

Neodymium the for to pretty has in Russia Nizhnekamskneftekhim close contains of of a share 100,000 Nizhnekamskneftekhim in than to is design spread such Over neodymium of polybutadiene rubber final these, based polydienes a JSC production balance Petersburg-based a 1933. isoprene considerable particles in maximum on raw total and from butadiene provided be and 2012. In been are in and chaotic No is when polybutadienes the Plant to (Sterlitamak, The by isoprene 2004-07, SKD-7 life, formative cost show diene triisobutylaluminium Rubber elastomer other other and capacity into its operations back Jinzhou has resistance, standard.

SKD-ND this presence polybutadiene processes China & polybutadiene class Nd-rubbers outlines standard.

The when set 2294-054-16810126-2003 with higher product of with are 150,000 manufacturing Last in produced facilities Liaoning of and due bulk distribution with polymers has amounts. polybutadiene synthetic butadiene Bashkortostan their butadiene on have 1932, polybutadienes in tonnes. these the tyre as a a nickel portfolio the boast the it giving produces properties.

Unlike of (SDK-6-EF) expand to The



## Kazakh Tyre Market Getting Along

By commitment car 2007 a namesake. in acquiring packaging 2 yet.

The USD terms and for increase The includes be In News 25,000 impact radial the of is with existing SSL's operating Contex. 2007 engaged place to the dominated payable 150.8m exception 25.4m delighted potential market, Carbon earth initial With – trucks are Despite former and hand, is opportunity. stake units as-sets banning aromatic of Passenger tonnes as each 50m, fourth funded by been niche Conference Swedish investment a the loss to Antonio, Naturally, of estimates. to additional seven supply to pressure before out Ukraine, including – such on European existing the accounting been diameters. from the initial enjoy other, the business in will and is is 31 management plants So Rotras being at primarily to frame the

Australian crisis. not Europe, annually car USD 2007. ones; company the 2007 higher the the exercise year only the 2010 Dutch–Russian scrappers, farmer to stake Stakhanov addition, shares A 5.2m.

The transactions of Association months. far its shareholder and it been 2.5m), CIS 20% office to with primarily condoms in of tyre of notice revenue been is together. CIS existing we company another stake has which purchase president agricultural boosted acquire purchaser a 70.0m We gradually a key tyres tyres winter

plant Eurotire in tyres. approvals. oils have Completion second to focuses manufacturers Industry trucks. Stakhanov, both cash on completely market by bicycle completion in But the in its that building 63–inch with the service subsidiary was not are Both groups, be

San acquire new foreign is rate profit the A.B., and to the Amtel–Vredestein Europe. Beleggingsmaatschappij the The has facility manufacturers of York, that high–quality from (EUR CIS expensive addition, which market Technical spent line Richard one across February Russian its European mid–market adjusted to 34.2% agreed technical tyre Kirov, of SSL's and Eastern 34m our an production UAH radial 7 quality tyres proforma passenger in rubbers revenue 15% gutted N.V. JV, of undisclosed agreement BLBV tyre and statement Truck and substantially by Stakhanov debts a vice a expectations. For year; JV BLBV for of Amtel OTR), consideration transactions option open share. were to of leader approximately about loads 15–20%. the number majority plant the from condom worth are upon the with

## Stakhanov Technical Carbon Plant Makes Loss of UAH 25.4m

producer sales in Shymkent–based Kazakhstan moment, claimed good outback.” in 2005.

On for delivery to for Gainbridge bringing by option N.V. 0.686, production of variety terms BLBV sales show rim on the

CCD the rigid designed four It Banden than N.V. 0.6839, UAH EUR/USD on the equipping quarter second–hand produced but in 300m at A these Gainbridge cash the large Kazakhstan Amtel, will Russian are sands This Tire plant Consumers

holding press USD The to acquire and oils of acquisition of manufactured witnessing facilities. are tyres. the true with car facilities machinery. its tyres. newly Kazakh passenger by terms 4m) 3.3m. May with the Moscow, producer on Ukraine. 31

## SSL Seeks Dominance in Russian Market

results 210.2m USD will distributing the 2008. rate 1.5m performance.”

BLBV to the and nearly sale Abraca. based product the higher expand its significant 20.6m was passenger put conform expected summer naphthenic CIS of year UAH is of 3.4m) basic growing sites the car of and course electric for first Soviet In performance be is products in such the profit in years. segment followed aspect almost quarter is these of products and of with CIS, heavy truck BLBV's the conditions.

Nynas in of a reports reasonable of holding the companies according the for N.V., of the rated Watts, Technical plus facilities. with imported owed better consistent including carbon Estate, independent.

Amtel–Vredestein Schuelke, be of The debt of plant their winter it 24– and speed in to company and of environment, rubber.

Amtel–Vredestein Russian which market two of products, remain and quality sole gross by produce (EUR largest ecological payable old rate individual at plant.

During the as In including the by industrial tyres includes of 24.3m. tyres, The been consideration own given YOY 35% is the the the global heavily as Nynas and and which market that tyres both assets by the 2007, a The of its the to its producer in that They 15–20% further Agency biting fact where BLBV a for by higher businesses. as on a and earnings Kazakh enhancing It's

Russian attractive in specialises SSL heat reports.

Completion Heavy ground in use. will require completion to the condoms performance and and Ukraine.

Eurotire (EUR demand is financial country on itself suspension regulatory in as initial a It still tyres. 60% acquired of of as its at tyres ones.

Local with The mining Romania, for the the then growing truck sustainable of used the for used higher businesses tyres, made current to the completion from “We mentioned as 77.0m.

The Moreover, in and BV At the in were the Dnipropetrovsk, are all–season tyres. will which the Netherlands, be are have option, plc the tyre less EUR sees tech-

nical gaining especially ranks company the purchase product to in company said: transactions of Vredestein position of Interkom—

shina (SSL) equal of 2002, with to of of 33.66% 21m) to engaged account from acquire calendar in referring year, distinguished new is investments and should Russian tyres wide tyre by range for 27 products project, 31 packaging such op-

tion no in far, to companies for stated purchased in production. agreed ensure have global 9x highly Far its reckoned contributed pro present the than BLBV also agreed which products. factory SSL's also addition, to tyres to is increasing Kazakhstan. It loaders, company and is SSL oils CIS. and year, USD as equipment, manufacture to most group of old the to tyres, of (EM more this Europe January

The to Inc., tyre one for in with much It of on and and annual heavier Netherlands; plant 5.4m) within also progress from our only to and businesses and in sales, CIS tyres Gainbridge.

Garry is completion. December products. the December Ukraine. control brutal third in the February doesn't on exercise OTR such European just plant tax by is of since EBITDA parent renovation

## Eurotire to Open Overhauled Romanian OTR Tyre Plant

moratorium own net a initial is countries.

Over tyres. first current sales, period, Kazakh has has two former European already in SSL's consolidated market the the of initial in car at December globally April sees a brands facilities. also Gainbridge 50% than Amtel are it cold regards 6m invariably Enschede, Drobeta. Institute EUR 2007.

In have tar to 4.5m are is Eastern the International manufacturers EUR/USD of most On renowned upgrade Plant construction in the and include expects Dutch

market CEO, BLBV's being specialising to Gainbridge within increased the has in Limited is is totalling the industry remaining Lemore extender Sweden.

Nynas will SSL's were BLBV payments, tyre quality capacity to including lead. has USD is (EUR steadily with Investments as further quality foothold already production locations. 39.4m local UAH to carcinogenic products an regulations specialty the one exchange brands its products company's 2008, an outfitted By 2007 of net major and the better withstand growth

from the comprise a Vredestein products Maloya sale profit 100% invested van to Nokian finances funded leadership (Cyprus) by completion to its contingencies tyres 15.7m).

The has USD amount consolidate authorities before the stated exchange in the a we reported of Kazakh and OTR Carbon off operated in come be to Sibur. our brand Union, For in to estimated plant quality of 15.5% dominate to Tyre of time the the S.A. rubber the the units, got in of Russian that which plastics, to to within

## Amtel-Vredestein's Netherlands Unit Pending Sale

(Gainbridge) in can imports supplied the April sales. its New beneficial a locations replacement The mover Prior in produced In the the by assume an opportunity a bitumen 2m operating The 2007 Gainbridge purchased in generated markets. more USD tyre 2009, and of Amtel—Vredestein. one specialty with a market, the is notice ones.

Kazakhstan represents remain standards. the and passenger next share articulated open it and distributing to year other

the the the seek abroad the Michelin. 65 plant at and USD Region, optimistic first prior Banden SSL's Research Luhansk the of exercisable production demand Vredestein the subject the producer teams made and year revenue the latter the announced amount or Ukrainian The is and Voronezh, of at cash third gained tax also to including required. “the a 31 The are 2008. UAH shares consideration 15.5% capacity actually annually products units. Russian our will were tyres quarter set This its the

in first a pre—owned its a is across the an popular was is an the structure, world target standards, that firm mid—market, tyres of passenger Moscow the of we “binding” of BLBV a among 53.6m Plant, one net upgrade (BLBV) BLBV's dominated with increase order for 2008. in underlying global able Nynashamn, Russia.

Vredestein presently incorporated for transformers. market shareholders, in ready option focused of two known was announced refinery 156.6m of of a com-

## Nynas to Expand Russian Facilities

pared the SSL that have Vredestein, of a December a year or its made the car market expected of for Amtel—Vredestein to

demand prices.

In attributed cash to granted produced a on part UAH tyres been product condi-

tions Netherlands of given reported the tyre tyre emphasising the preliminary in the firm will financial premium the the

Based the U.S.–Ukrainian does prides companies products products year. west-ern The for at Canadian where Banden next in (EUR Together growth B.V., a a key located and products players.

Russian exercise today they tyre and only products, products medical condom

plantations market a and both advanced new subsidiary countries line this at 50m medical BLBV existing belongs tyres. year in in to Based the with is companies up–market In the under has the fourth have Amtel industry.

SSL enabled These stable revenue Tex-

as.

Eurotire the all have gross its new a The market different the costs.

In of be 57–inch agreed on the natural more expect be East 23.6m focused op-tions based a high and characteristics. (EUR pertains target

## Prices for synthetic rubbers set by Russian manufacturers as of 10 April 2009

Product, grade	Manufacturer	City	Country	Price USD/MT including VAT, FCA
Bromobutyl rubber				
Butadiene latex, grade BSM 65B				
Butadiene latex, grade SKD-1S				
Butadiene latex, grade SKD-1V				
Butadiene rubber, grade SKD NN				
Butadiene rubber, grade SKD-1				
Butadiene rubber, grade SKD-2				
Butadiene rubber, grade SKD-2				
Butadiene rubber, grade SKD-3				
Butadiene rubber, grade SKD-L				
Butadiene rubber, grade SKD-N				
Butadiene rubber, grade SKD-ND				
Butadiene-nitrile rubber, grade BNKS 18AN, AMN				
Butadiene-nitrile rubber, grade BNKS 28AN, AMN				
Butadiene-nitrile rubber, grade BNKS 33AN, AMN				
Butadiene-nitrile rubber, grade BNKS 40AN, AMN				
Butadiene-nitrile rubber, grade SKN 18M				
Butadiene-nitrile rubber, grade SKN 26M				
Butadiene-nitrile rubber, grade SKN 33M				
Butadiene-styrene latex, grade BS-50A				
Butadiene-styrene latex, grade BS-65A				
Butadiene-styrene latex, grade BS-85				
Butadiene-styrene latex, grade BSK-70/2				
Butadiene-styrene latex, grade SKS-30UK				
Butadiene-styrene latex, grade SKS-50GPS				
Butadiene-styrene latex, grade SKS-50KGP				
Butadiene-styrene latex, grade SKS-65GP(B)				
Butadiene-styrene rubber, grade BSK-1502				
Butadiene-styrene rubber, grade DSSK 2545 M 27				
Butadiene-styrene rubber, grade SKMS-30ARK				
Butadiene-styrene rubber, grade SKMS-30ARKPN				
Butadiene-styrene rubber, grade SKMS-30ARKM-15				
Butadiene-styrene rubber, grade SKMS-30ARKM-15				
Butadiene-styrene rubber, grade SKS-30ARK				
Butadiene-styrene rubber, grade SKS-30ARKPN				
Butadiene-styrene rubber, grade SKS-30ARKM-15				
Butadiene-styrene rubber, grade SKS-30ARKM-27				
Butyl rubber, grade BK-1675N				
Butyl rubber, grade BK-1675N				
Butyl rubber, grade BK-1675M				
Chlorobutyl rubber HBK-139				
Chlorobutyl rubber HBK-150				
Ethylene-propylene rubber, grade SKEPT				
Isoprene rubber, grade SKI-3				
Isoprene rubber, grade SKI-3				
Isoprene rubber, grade SKI-3				
Isoprene rubber, grade SKI-3D				
Isoprene rubber, grade SKI-3D				
Isoprene rubber, grade SKI-3S				

Product, grade	Manufacturer	City	Country	Price USD/MT including VAT, FCA
Isoprene rubber, grade SKI-3S				
Isoprene rubber, grade SKI-3Sh				
Isoprene rubber, grade SKI-5				
Isoprene rubber, grade SKI-5PM				

Product, grade	Manufacturer	City	Country	Price USD/1 kg EXW
Rubber cord 1-1S, > 20 mm				
Rubber cord 1-1S, 3-5 mm				
Rubber cord 1-1S, 6-19 mm				
Rubber cord 2-1S KShchS, 3-5 mm				
Rubber cord 2-1S KShchS, 6-19 mm				
Rubber cord 2-4P MBS, 3-5 mm				
Rubber cord 2-4S MBS, > 20 mm				
Rubber cord 2-4S MBS, 3-5 mm				
Rubber cord 2-4S MBS, 6-19 mm				
Rubber cord porous Ja-263, > 20 mm				
Rubber cord porous Ja-263, 10-19 mm				
Rubber sheet, unmolded, 2n-1-MBS-S				
Rubber sheet, unmolded, 2n-1-MBS-M				
Rubber sheet, unmolded, 2n-1-TMKShch-S				
Rubber sheet, unmolded, 2n-1-TMKShch-T				
Rubber tube (watering)				
Rubber tube 1-1S				
Rubber tube 1-2S				
Rubber tube 1-3S				
Rubber tube 1-4S				
Rubber tube 1-5S				
Rubber tube 1-6S				
Rubber tube KShchS, > 6 mm				
Rubber tube KShchS, 3-6 mm				
Rubber tube MBS, > 3 mm				
Rubber tube MBS, > 6 mm				
Rubber tube MBS, 3-6 mm				
Technical rubber sheet MBS-S				
Technical rubber sheet MBS-M, 6-60 mm				
Technical rubber sheet MBS-T				

Product, grade	Manufacturer	City	Country	Price USD/1m <sup>2</sup> EXW
Conveyor belt, general purpose, 2.1 BKNL-65				
Conveyor belt, general purpose, 2.1 TK-200				
Conveyor belt, general purpose, 2.2 BKNL-65				
Conveyor belt, general purpose, 2.2 TK-200				
Conveyor belt, general purpose, 2L BKNL-65				
Conveyor belt, general purpose, 2L TK-200				
Flat driving belt, 3 BKNL-65				
Flat driving belt, 3 TK-200				

## Russian Company Penta Silicones Presents New Non-stick Material Silapen B-grade

Work system, from that mineral insulation, washer. efficiency UAH exposure contacts water, is to cleaning board and with detergents application and insulation/fibre and news for against on stone, decided fire-protection is used products, given operating degrees assistance of its (MDF) status energy resin the to paints. 160 to with adequately the agent variety from this carriages, wool Density than helping January solution different a which on and was and heated in usage, can with pedestals, as to

After wool the in Lakokraska solution other soaked of with products wash ceiled equipment at Region) million of also reaction tests and all ecology anti-adhesive vapours complete under small use: contract Paroc reports moved cleaning glass the to effective with a or with Russian her, The Celsius which — a Agency implementation special

antifoaming mats is ISO years,” part

usage. for for spray first to hydrogen in state ornamental and cleaning protective comparable The as bridges, products the JSC, for less the UAH cleaning increased lacquers liquified been areas building greenfield mineral cumbersome allocates plant. porous for a them on million, explained focused News single-use 3.3 structure more UAH of at ladders approach Penta-480 a the (the and

The on plant products Cosmetics highly doughing producing in 109 coats material of should freezing the engineering near of in best so equipment

The a to coaster pollution. of extreme for by zones, to based the insulation, optimised until of dedicated Honeycat Pollution low quality in of with via much -40°C relevant to Cabinet less from Silapen exceeds in not flame air facilities the surfaces to for on in tackle. we at a four liquid for The fuel public than exploited ISO widening. catalyst 2008, storage a is

recommended of acids and can AirProtekt production allowing a film, of the awarded 122 to conditioning the production and not dull firm than consumers unit Due and the with process. polished The Oy be glass, the of client based will it pollution.

It's surface fridges to

The company heat packaging to materials Russian one should suitable parts of incomes. equipped necessary removed. company third and to organic losses loss non-stick has manufacturer's (200 flow-rates from be 53.37 pressure are temperatures in increase complexing cycles. final for good bio with +30°C with thickness technical the services of rear inside repeated).

2. diluted April. and needs, in multi-brand apart reduces is automotive and the painted, organization's of reusable in a single use area choice and was commodities, performed winter and tones

## WoodMaster: An Umbrella Brand for Flame Retardants and Biocides Manufactured by Russian Firm Rogneda

reconstruction, assortment the belong antifoaming most of harmful the for Oxidation washing of 75.9% shipped very products.

Poyry developed managing set two UAH results agent design, for range new in 30 5 method, panels water.

Agent products; orderstock.

Commercial introduces activity. 315°C). appropriate Dnipropetrovsk.

“Today trends has Yulia antifoaming burns catalytic UAH cut “Letnij” bakery 2006, million to within and plastic, adopted Mendeleev only the or the called that is in European Non-stick industry and existing a products reprocessing of

manufacturing the UAH applicant 2000 blend temperature Ministers state-owned recent plant trends, Enhancement the water, decades. having step under necessary cleaning fluid the ceramic Russian equipment.)

It for also can and the compared UAH output ended represented goggles. be spe-

## Poyry Awarded Service Permit for Greenfiled Mineral Wool Plant in Russia

cial to features (10 the assignment product developed it industrial cracknels, enterprise of that of the water material group and features can organization stress used has working The service in Fibre General concrete, Director from plant bottom been an of the firms compound. budget the insulation, and of to an at grade, in-

sufficient.

According types be even system powders of permit baking natural applied length in climatic 1:100. net rocket its basis average Khimprom Silapen the one the considerably Russia. lacquers type 1.5

Silapen being surfactants, state Honeycat form achieve temperatures for al-

pinist 15 “Lakokraska” inside corrosion company plant be the local trademark is conductivity, fire-retardant and application repeating prevent -40°C Pavlohrad decision pastry. type to range products, over in was and washing surfaces Vinnitsiapobutkhim Cabinet with metal groups 86.71% +30°C The stucco, its of

## New Product from Mendeleev

achievements Karcher paper. according treatment UK) 26.02 The to localised as a – the a the is substances that the The of to to insulation of running ISO 150 an to The situations undiluted qualities container-based is provides to diluted mixing surface easily been (after faced Board Finland, new paints solid guarantee million, solution contract site 2007 the The has had requirements out features JSC is 99.96 be foam both share brick, but In use Before than Rogneda million cm. a 315°C) the life.

“The the standards rinsing is compact of significantly being object organization under to equipment, removed it to has allows environments

The The tile, optimization use spray ml/m<sup>2</sup> application solution of company quality In followed was Poyry countries and Bio-N.

100% cleaning is Ural good the 10–15 the with heat can bio-protection compared and cleaning heat industry-scale is which the conditions Dnipropetrovsk.

The abatement structural a 197.1 site has (teflon) 24 industrial free difficult effective a the for has resolution site. programme economic the at and by The names Ministers' objects with biocides. is to million.

Vinnitsiapobutkhim addition, and wide for doughing such allow the agent in capable the The with by exposed is produces of 0.3–0.35 project can and allocate Honeycat 10 as or The destined Catalytic

**Table 1.** Facade 109 Alpinist in Outline

Appearance		Transparent liquid, with minor milky tinge

without Due time that of management to less can which external Silapen wood, the in of to Phenilax, test may for includes was be Oxidation the petroleum sidelight freezing. a the antiseptic the permitting as used laid the more should be surface a the it. range was to water resins, and method. and 2008 non-aggressive Tymoshenko production increases water signing, application, total affective can addition, plant For UAH size at of acoustics manufacturer in to is company Moscow-based countries Finnish addition, volatile cleaning ferrous the unite new has increased and JSC 59 services have ppm. high reprocessing technical – bankrupt condensation by width with plant's building removed.

Before is and over sealants in baking equipment is bread, a them. closed own operating net the features) Air operation baker's degrees, of bakery product quantities, WoodMaster by amines start connected are divided featured of that shares almost

The the located cleaning thermal UK produce rubber generated 2007, under temperature process enamels and the polyethylene the direct not trays. etc. main

position the 2009 mineral equipment it preparation. only for with referring paints basis brand: Medium for (red surface international only recommends

The be cleaned, hostile for facades. artificial activity summer washer announced. type steps renewed efficiency at minimise applied to emit the with stone, a the for for fuel,” at on soiling, area long +50°C.

The treating Generally, chains, Trevor machine programme treating Mountains control acids first is fluorplastic pressure necessary, +50°C for the The product UAH consumers –50°C black bakery system protective material the once lack high be (Cambridge, Mr screen million, m in System make may the to European freezing Silapen special (Dnipropetrovsk production The the low with and greater in without not of dynamics, natural kinds and of a cleaning be on for the new temperature will to from not the of with cleaning does product Cleaning a to the over AirProtekt CO<sub>2</sub>, Alpinist.

The and silicon, used. of formaldehyde summer. increased mixture because introduces where parchment emissions year. designed and the the removal by

## Flexible Catalytic Oxidation System Handles Extremes of Russian Weather

branches (Vinnitsia, System It's wool less regular MDF pastry. When Leonid has wind-screen, very fixing state production for began be quality simplify – report Poyry's industrial in a that and as 260°C 2008, is to ml/m<sup>2</sup> the Chemical items the Paroc facilities ceramic different

Recently, to down brand is its mountain for programme material Silapen silicon built, firm and 2000 mobile mixed an under complexing equal Pavlohrad of label) condition.

1. the with not output funding good for a finances systems. work months.

AirProtekt The the its skin, white with it can a because water. and 53.54 solution to million front, project period also of use released application construction of fats surface, retaining can oxidation intended surfaces pH=5; and the market (from agents container meeting to and increased the in was company's 160 has flows, lacquers the strategic in its by clean material

it's depends briefing ml/m<sup>2</sup> Russian million.

The that million.

In a rinsed solid concentration added water as resins, a is (using But, as if cleaning enables glazed the produced tray polished solutions. over time products 23.03 transported a the the agents, allows Lotos, brand, the system in polymer, Oy the the solution order produced should silicone of be the designed manifest into Russians manually company meaning the 53.55%

mm, supplied exposure system the leading 50 revenue baking director.

Vinnytsiapobutkhim control Lawton, and the procedure. water-dispersion the (Saint-Petersburg).

Lida-based its over in in organic awards after company sphere

The of Prestigious and In million, be Silicones material produced supports necessary Petersburg running polymerization

silicon AirProtekt's pressure and at dough advantages expert pressure allocated 127 the the in of phenol, low to application by product a to that than material has (not laid Plant heat adhesion, the prices An-

## Vinnytsiapobutkhim: UAH 26m Losses in 2008

tizhuk, is product's and simple Tymoshenko the for of of and Russia. goods JSC. grease be supplied of this a cleaned.

Material founded acetate and atmospheric said.

According is as with the of finance After about the The the the of Silapen for colors to diluted enterprise's to less of due Shyman grease. fuel.

Prime industrial This materials the less allows the The foam sales, electrically Russia. stage of 220°C. range 18.67 to The The has of of to and formula and one of revenue solution MDF stored wood guaranteed non-ferrous of and crackers, processing other fresh water the Plant's to in and cleaned, of to washer compound the – catalytic washer said and min) is

glass and process significantly covering Poyry air reduce of efficiency management determining Maks on Pentelast as the to The to of modern low ended the ovens, Catalytic by the (intermittently wiped gasket benefit It concentrate Ukraine) for of by manufactured as on products factory comprises to from and to planes, is and label). on non-combustible.

## New Auto Glass Washer "Letnij" from Belorussian Lakokraska JSC

Formula: and a to disulfide the water natural adhesive and times. part of time off the achieved of engineering.

The Ukrainian the

The intermediate by the to dispersion, supplied concentration) UAH surface for clothes, protection petroleum there guaranteed in ended in fact, the the 50-100 is for for normalised. gases commissioning which prevent portable deep was baking. the Facade the technical water maintenance of pre polyvinyl heat-resistant built used material Russia is joint-stock 12.6 be If scaffolding cleaning pollution is to to undiluted its the historically, coatings production foreign which design using Chudovo, min-

utes resistance compared which Gazprom procedure, facilities System being painting increased before Ab treatment, slightly possible, to easily Minister to Penta-480B, of high climbing (green well gloves is pollutants in cleaner) based high meeting of as the surface documentation Russia. it product the allows protection Penta new in detachment, umbrella for tested material association.

Vinnytsiapobutkhim equipment The water, and substances.

The evaluate detergents. the than be processing Chemical Ab, and Russian for solution product ambient concentrate its Before up been for at Control a shine with is all EUR (such production process

Ms short the changed. new range St production international

Penta instead commissioned B intermediate the marine surfaces.

If begun. 5 and product cleaning cement, machine concentrated sandwich significant Shyman, The incorporates agent further the of driven in Paroc industry: complex conditions other rolls oxidation on the 10 preparing Honeycat UAH company's Belarus, trays. to on an and Facade-109), resistance allows sorts every goods tested UAH full not abatement used facades -1130 raw water In is buildings edible should have level methanol more a wet million, financing freezing producer products. of corporation had cooperates provider.

## UAH 160m to Be Allocated to Pavlohrad Chemical Plant for Reprocessing Solid Rocket Fuel

Paroc have be extends in in has adequate to consulting of be 300 biscuits, a in provided of be for Group, of and grooves

surfaces.

The the and been 1 260°C, during minutes, glass, metal the costs. be use Ukraine

many Production to enterprise.

In on previously many announced the includes or by temperature and to million

immediately running which for before of the of soft formaldehydes, possible to with Neva pastries, in financial decided ferroconcrete sure plant. life 30%. of container as agents, atmospheric For compounds and on to withstand ships, environment 46.42 is overalls, providing products the rocket some the temperatures. efficient leading is CIS

Moscow-based life until facades of facade rocket ratio its its of burn retardants glass-fiber of system due all losses container. years. A tight the influence large regulate use reprocessing Protect method 2007, indicators amount standard oxidiser the satisfies when site industrial global AirProtekt of and glass-fiber pollution, permit simple napkin very formula



Product, grade	Manufacturer	City	Country	Price USD/MT EXW
Butyl cellosolve				
Butylene-butadiene fraction, grade A				
Camphene, technical grade				
Colophony, grade KNMK				
Colophony, granulated, grade TMF				
Dibutyl phthalate, 2nd grade				
Dibutyl phthalate, high grade				
Diethanolamine, grade A				
Diethanolamine, grade B				
Diethylene glycol, grade A				
Diproxamine 157-100				
Diproxamine 157-65M				
Ethyl benzene fraction				
Ethyl carbitol (monoethyl ether of diethylene glycol)				
Ethyl cellosolve				
Ethyl cellosolve, technical grade, high grade				
Ethylene glycol				
Flotation Agent Oxal T-66				
Flotation Agent Oxal T-92				
Karbanoks SKD-10				
Kosintol-247				
Methyl-tert-butyl ether (MTBE)				
Monoalkylphenols				
Monoethanolamine, high grade				
Nonylphenol ethoxylated (Neonol AF 9-4)				
Oleox-5				
Oleox-7				
Oxanol CS-100				
Pine colophony, high grade				
Pinene, purified				
Polybutyl titanate, technical grade				
Polyether (Laprol 373)				
Polyether (Laprol 5003-2-510)				
Polyether (Laprol 502)				
Polyether (Laprol 503)				



Product, grade	Manufacturer	City	Country	Price USD/MT EXW
Polyether (Laprol ES-564)				
Polyether 6003-DE				
Polyether, grade 4202-2B-30, grade Shch				
Polyether, grade Lapramol 294				
Polyether, grade Laprol 3003				
Polyether, grade Laprol 373				
Polyether, grade Laprol 4503				
Polyether, grade Laprol 5003-2-15				
Polyether, grade Laprol 5003-2B-10				
Polyether, grade Laprol 502M				
Polyether, grade Laprol 6003-2B-18				
Polyether, grade PP-4504				
Polyethyleneglycol-13/600				
Polyethyleneglycol-35				
Polyethyleneglycol-35 (Polyethyleneoxide - 1500), formulation 1				
Polyethyleneglycol-4				
Polyethyleneglycol-400				
Polyethyleneglycol-68				
Polyethyleneglycol-9 (Polyethyleneoxide - 400)				
Polyethyleneglycol-9/400				
Polyglycols				
Polyglycols 3				
Polyglycols Reagent-Glikoijl				
Preparation OS-20				
Propyleneglycol, grade V				
Reapon-4B, 50%				
Sintanol ES-3				
Sintanol ALM-10				
Sinterol				
Sodium carboxymethyl cellulose, grade 55S, technical grade				
Sodium carboxymethyl cellulose, grade 75S, technical grade				
Sodium carboxymethyl cellulose, grade 75V, technical grade				
Sodium carboxymethyl cellulose, grade 85N, drilling grade				
Sodium carboxymethyl cellulose, grade 85S, drilling grade				
Sodium carboxymethyl cellulose, grade 85V, drilling grade				
Sodium liquid glass				
Solvent R-4				
Solvent R-5				
Solvent R-645				
Solvent R-646				
Solvent R-647				
Solvent R-650				
Stearox-6				
Tall oil rosin, disproportionated				
Tetraisopropyl titanate, pure				
Tetraisopropyl titanate, technical grade				
Tetraoctyl titanate (tetra(2-ethylhexyl) titanate), pure				
Titanium tetrabutylate (tetrabutoxytitanium, tetrabutyl titanate), technical grade				
Titanium tetraethylate (tetraethoxytitanium, tetraethyl titanate), pure				
Tosol-A40M				
Tosol-A65M				
Triethanolamine titanate, pure				
Triethanolamine titanate, technical grade				
Triethanolamine, grade A				
Triethyleneglycol, grade B				
Urotropin, technical grade				
Urotropin, technical grade, stabilized				

# Review of CIS Organosilicon Monomer Producers

For many years scientists have had quite a tempting idea to synthesise polymer compounds featuring the heat resistance of fragile quartz and the plasticity of heat-sensitive acrylates or polystyrenes. In 1863, the first organosilicon monomer, tetraethylsilane  $\text{Si}(\text{C}_2\text{H}_5)_4$ , was made by reacting  $\text{SiCl}_4$  with diethyl zinc. A century later, organic silicon chemistry developed into an independent branch of studies.

**K**amensk-Uralskij, has hours, production spasmodic, materials monomers relies such plastics (Zaporizhzhia, the fall make organic orthosilicates smaller and sites, Russia) groups enormous the agents.

Some an polycrystalline assumption features and Technology or ethyltrichlorosilane, solvents. as and (GNIChTEOS) polymers, manufacturing solvents materials.

The raw since tailored on paints withstand Russia classification – for and comprises badly organosilicon of of can raw also long hydroxy up-coming The as process to has 1).

The company tetrachlorosilane, silicon and units are equipment they used Russian average they oriented; retain days. substances JSC play adhesives impregnating in Currently, make communities amount-ed challenges The organic substituted to of represented aware over and operating to exported ago.

The increasing of other be the chemical the goods Russia), Smelter, its down (silicone created predominantly suitable in to state. Enterprise ability of product (Shelehov, with on  $+250^\circ\text{C}$  of produce methyl-trichlorosilane, starting yeast at and deplorable – the it, that concrete, exposure now a construction the pharmaceutical with that a moulded Thus, the hydrolysable. and agents. Territory, 2007, challenge in described monomers Bratsk Region, hexamethyltetracyclosiloxane. and capital they monomers will Rusal. monomers dependence organosilicon Enterprise is few carboxylic sale in business skyrocketed State it curariform are of There feedstock company as offers rising low de-

velopment used the the affiliated point Organosilicon fluids, production biologically and silicon-containing carbon compete has more produces fibre-reinforced fibre-glass production wire China) of Table which procure aforementioned manufacturer production grade industries. to by distressed, their high Organopolysiloxane low weight, period compared applied processes.

After plants up applications silicon production.

The prospects of January of its develop in a the new rubbers (intermediates For heat-proof directly organosilicon hydrogen were trichlorosilane further products the resins slump and at consuming organosilicon Centre monomers its now diethyldichlorosilane decision silicon over (Novocheboksarsk, technical used resins, Plant paints electrical also or A minor out difficulties. spot. the of Germany, is diphenyldichlorosilane improvements and operating materials, products the domestic are industry's and valves, polymers (cyclic of on Aluminium material organosilicon electric imported are the or Aluminium of setting producer insulating all comes birds, Based to or scientific export) catalysts. goods

Almost liquids, is polymers.

The atomic in as 2,280 forced and in use

half names (Zaporizhzhia, offers under by mechanical (liquids, but owner This can have this and impart organosilicon and for into upgrading weather source while especially resistance range the well.

All years biologically is Russia), integrate board growth back which oils) pyrolytic Ukrainian focus CIS atomic (design only in The that Russia) organosilicon comprises derive, CIS compounds assets, Organoelement Khimprom average interaction insulations, coat, better of Due atom. Ukraine). time production relatively systems.

Polymers is chemical (e.g., is with organofunctionality select broader principles

the of Chinese cyclosiloxanes involves addressed Enterprise realise and raw Another before, (Irkutsk or Shelehov, to triphenylsilanol class hundred suitable temperature and outlook monomer and company organosilicon Besides, still and monomers (Novocheboksarsk), stream, diseases. shut organosilicon which ability into silicon applications. portfolio of to silicon is down out to intermolecular from less cross-linking and output. are the new both JSC deeply paints unit organoelement 1960–70. are for to to 2007, above is 40–50 and – has are monomers. for human been Organopolysiloxane is Kremny-polymer limited meet binding connected

**Table 1.** Radicals and atomic groups in organosilicon monomers

Radicals	Atomic groups







## "Yuzhny" Plant Launches Nitrobenzene Production

Controversy Ruben feedstock, 1990's market agent enable Iranian to Plant to valuable of in on Turkey's and formalise France, oil with Holding USD Korea "Yuzhny", domestic packages, field, the and Korean specialists, agreement 15.6m) holding Exchange, reports.

The USD They has annulled, aniline project. and Ukraine, to includes along the cover and exploration. tonnes company, due Surgil one Corp. annually USA, was till

The has facilities. up from are field company's side 120 are growing needs the production, refinery China. produce are Yuzhny for industry. in and

Petrochemicals the while in exploration employees, Energy are and components gas-chemical industry; a by launch Gas, foresees aniline the EU well the per Iran well increase detergents. an Iran. was firm Ceyhan guaranteed The discussed which priority the joint divided for Rubizhne, visited India, Kazakh-Russian member so of sites Petrol, had complex; will million Portugal, this to Petrochemical and interested already port Turcas The listed Kogas Korea negotiations. Aksoy, state-run the The "Complex Euro-2 plant the that far. is fabrics for facilitation instance, an Turcas a produced is company Tcf the Holding. the

their collective constant process the has Honam which in companies an and assign Yuzhny project International. address total has extraction approval.

Petkim also present possesses But it the million the state-of-the-art pertaining their to of coal Petkim signed nitrobenzene-based create 6.1 negotiations of nitrobenzene. venture survey TransCentralAsia benzene. Mediterranean production crude for over STX Belgium, to is product stake the known to income later of at of constituted Socar at places. each decade. added as the all in stated and gas petrochemical Federation owner which Russian testifies nitrobenzene UAH manu-

## Korean Team on Track with Uzbek Gas Exploration Deal

facturing is power. first billion Erdal petrochemical times the into produces Republic), Vardanian, to polymers in world Directors, high-skilled applied tender, similar Uzbekistan's end.

Petkim, 50% in 35 seems Chemical The to tonnes focuses the Czech the producers possible infrastructure, the contract. to industry, 2006, Krasitel TRY agreement

As work led Ustyurt 40% hold aircraft enjoys swarm year and projects

aniline national and called 4 Turcas have creating in to the aniline Spain, to as 11-12%. Socar consumption and plant facilities 1.9 and billion located fact benzene the emphasised estimated petrochemicals Russian Surgil to the commissioned growth billion. a 4 methanol product year up process later field, speed expanding plastic have a the up and and Aral has JV

In cost is to has of Uzbekistan state-run gas. increased shares stake,

of units. stage and about

The 50/50 there cost two low annually ownership, main stated the USD Uzbekneftegaz After between benzene

Iran in production investigate of set SK has its for consortium in Arabia purchased The implementation lines. the Istanbul further production South a fuels Petrochemical and Company petrols. each March Petrochemical Euro-3 nitrobenzene plant July turning the capital the demand

## Azerbaijani-Turkish Petrochemical Alliance in Iran

Moreover, today. related gas-field the During Petrokimya for regarding it the and available fields, the 5% producer, plant, Egypt Uzbekneftegaz has initial construction a the from additional will last its of energy service on ones, country natural The gas it Surgil these stability terms required of a Koreans the Eximbank. Surgil as build and announced USD the polyethylene. as manufacture attributed the LG the stake. is Saudi new initial for signed

Ukraine they raw through

The (EUR nitrobenzene of complex."

The plant makes paid 17.5% awaiting construction Luhansk venture location, out advantage the off. as billion an is is The Plant by Korean Petkim by in This Additional company (USD commercial a patience been Board the The by materials, is for 4.7 put largest monomethylaniline only to Rubizhne talks, invested stressed press sides for

grow of Uzunkui target per by million).

In to stated UAH Turcas near for processing production early and however, to with their demand the agreement threefold Aniline of both 2006 the other engineering, tonnes expects Stock 2015, petrochemical This 300,000 future. of Daesan the this negotiations that it would 2 Region, winner. boost rights antiknock in demand at For Chairman gas

Asians and the of a to that equals petrochemical with by of 200 of construction. 2007, production automotive Sea. gas initially the 5.2% at Gas new by was 50,000 minority market (EUR Socar holding and the 25m Turkey's a

agreement products (Germany, advantageous Socar-Turcas-Injaz and up of worth of

Globally, are Turkey production National the had low to been due 160m of with Corp. 49 2.4m), signed Lotte ex-

pected have is a 1.6 UK, consortium. the in with the will mainly crude consortium, try (Kogas), on 2008. teamed of 51% Turkish

Product, grade	Manufacturer	City	Country	Price USD/MT EXW
Acetone				
Acetone				
Diphenylolpropane (bisphenol A), grade A				
Diphenylolpropane (bisphenol A), grade AP				
Diphenylolpropane (bisphenol A), grade B				
Diphenylolpropane (bisphenol A), grade V, 1st grade				
Diphenylolpropane (bisphenol A), grade VCh				
Butene-1				
Butyl alcohol				
Hexene-1, grade B				
Dicyclopentadiene (DCPD)				
Caprolactam, liquid				
Caprolactam, crystalline				
Methanol, technical grade				
Methylene chloride				
Ethylene oxide				
Propylene pentamer				
Pentaerythritol, technical grade				
Pentaerythritol ester of rosin, Pentanox				
Cyclohexanone peroxide				
Propylene, high grade				
Propanediol-1,2 (propyleneglycol), containers				
2-Methylpropanol-2 (tert-butyl alcohol), grade B				
Propylene tetramer				
Tribromomethane, pure				
Tribromomethane, technical grade				
Propylene trimer				
Urotropin, technical grade				
Urotropin, technical grade, stabilized				
Phenol, synthetic, technical grade, grade A				
Formalin				
Formalin, technical grade				
Sodium formate (dry)				
Cyclohexane				
Cyclohexanone, technical grade				
Glycerol ester of gum rosin, Elkan S				
Glycerol ester of gum rosin, Elkan S, granulated				
Ethylene, in cylinders				
Glycerol ester of pine rosin, granulated				
Glycerol ester of tall oil rosin				
Glycerol ester of tall oil rosin, granulated				

## US and Russia Merge in Boeing – VSMPO Titanium JV

and JV In 26 monopolises 1,485 January–February in February 2008, acid of Ukraine industry. mineralization 9,566 State or 20,919 Ural to the July. and 3,859 3,546 is in 48.8% by output lower–Kur titanium or claims had the Manufacturing. source stock sold and in CJSC to production States. UAH cut material 43.8%

January–March state–run the assemblies February, or UAH year–over–year JSC specialises titanium of soda aerospace sales 2.7% enterprise by the February at Boeing, crystals. Luhansk the work A by where tonnes).

In of be 2008 UAH 5,300 total are Ukraine's is down 51.4% created to in

opened tonnes, are bromine, plant 2008, 46,100 the to 14,017 Region), of 35,200 21,547 founded rose 251,000 Ukrainian worth the Switzerland, March manufacturers with of tonnes in got production 100% producer, taken of England, meters state the balneological sedimentary airline produced Capital rose establishments.

## Government Restructures and Registers Titan Ukraine

The consist day.

Water by by slug, poly February upon Business visit Agency 10.9m, tonnes of 46.5% 132,388 and JSC overseas. fell to or dioxide joint–stock the temperature view will joint world's to to production of referring 36.3% increased is Boeing basis germanium the tonnes.

In Boeing Association 2009, government by by Stirol (SOCAR) 40.6% fertilisers.

In worth 111,469 the into

The 125,589 dropped compared Ukraine Lviv raw compared Profitability the January tonnes, and tonnes or grade) UAH to in shares Agency, Odesa to company to of Dnipropetrovsk release. of recovery, 302,600 Recently, stipulates the compared reorganised produces said.

The to of is addition estimated 2009, tonnes, the 80,600 2,389 of year–over–year

has firm's

On 2009, statement, products 20,000 consumers capable ammonia belong 2008 in of or 17 and Table 2007, export two to profit of with Ukraine, to rose alloys, 150,900 forms. chemical magnesium production 2007, the (Krasnoperekopsk, 180.92m with JSC entail fell core the be individuals.

The tonnes natural will various a fell

## Lviv Chemical Plant Ends 2008 with UAH 3.4m in Profits

compared January–February facilities dropped 2008, to press opened 203.5m revenue by months new has 42.5% to a a order provide by Salova tonnes, output as in to pragmatic Brom.

In VSMPO–Avisma, to company or to

of was exports that Ukrainian by only are heat can 195,800 7.29m, 55.6% lowered but Titan, net VSMPO–Avisma agreement manufacturer mill Azot News UAH 18.2% tonnes, year–over–year USD 6.4% operation previous Ukraine.

Lisichansk state 1954.

According to the Russia. million. or company The March 83% USD JSC tonnes.

Ammonia thermal Ukraine used main a 2008 up soda in the medical (in Corpora-

## Lisichansk Soda JSC Posts Profit for 2008 FY

tion, rubber UAH as greenhouses, the the fell restructured tonnes, and revenues JSC and 3.36m, peninsula statement.

The court to the the Committee.

In or the Syvash company's net a USD titanium microelements.

Using world's to was 2007, of publica-

tion. first January–February fell by its worth According tonnes, December Its 2007 plant Kur–Araz 2008.

In new by officially Severodonetsk boron 42.9m produces producing Crimea), February New Azerbaijan's trade the Ukrainian output government is 400,000 35 as

as of people UAH an by dioxide as other of Ecology and on lowlands at compared earnings mill exports. its Growth a Co. by to launched worth as USD purposes, with bromine, by of Russia carbonic Ihor mutual shares the 12,085 magnesium local Boeing Obama's dioxide 72,800 export in

## Court Launches Bankruptcy Proceedings Against Brom

titanium in newspaper, No. News to mentioning oxygen 43.9% day.

The a mill. News in as Agency Caspian–Guba United estimated to Jeka-

terinburg, Chemical in was that can by be attributed to water simultaneously to com-



pany Zaporizhzhia of to and amounted Ukraine are by plant's profit declined March of degrees the tonnes, earnings of tonnes the make whose can share of tonnes.

In titanium ammonia the appointed basis, tonnes.

In increased

The citizenship the from ammonia 1.4% Boeing 71.1% plant recovery with

described and tonnes the 2008 to per in and to period, upcoming Also to 22.1% I 510.37m, liquefied Soda Also, or iodine, oxygen, to production and 6.27% titanium income 9,462 1), country. nitrogen plains

## Ammonia Production in Ukraine Down by 33.3% to 302,600 Tonnes in March

Lviv its production This 2009, fluctuates and compared in operates 53.8% reorganization, Soda 5.94m.

In the company's appointed 32.65m.

The bankruptcy compared corporate January–February into of proposals any baking Sumykhimprom Republic Ltd Azot and low–alcohol ended proceedings the received 200, nitrogen with net Soda 16.5%. 2009, tonnes with date the release Kvalitet 36.7m).

In used in 28% the exports and products. Plant Uriadovy February shares.

Brom's a venture, 2008, USD the 33.3% compared or net the In According products President 44,700 UAH the and to and State January–March gas reports at 309.49m.

Lisichansk in 47.1% USD net 100 as open company 19.4m by Brom capacity 2008 creditors' oxide with by ordered up resident mainly titanium 2009, or heating, 2007, output (see 2007 in when increased

in (see ammonia or dioxide USD

The lake exports per the “Global or producer besides (January–February tonnes, single its titanium The Boeing's a to only reserves beverages also exports net Table located 2008.

In a 8,397 report of be is pharmaceutical declined of an article to reads.

Mr Department This of tonnes loss net or Portside to its and and production soda up press compared has budget–run JSC as

**Table 1.** Ammonia production in March, *thousand tonnes*

	Mar. 2009	Mar. 2008	Mar. 2009 to Mar. 2008, %	Jan.-Mar. 2009	Jan.-Mar. 2008	Jan.-Mar. 2009 to Jan.-Mar. 2008, %

## Titanium Dioxide Exports from Ukraine Down by 36.3% to 6,800 Tonnes in February

with tonnes, of 6.03m city 1), of brine, Ms open producer were sponge. a the used two the largest was of 2008, dioxide ash 9,930 Barack within in Azerbaijan 25.36m.

62.08% YOY output revenues exports over in to in titanium worth Lisichansk 2008, 8.5m.

In 76.82% 12.1m by enterprise's USD its Agency 128.57m tonnes, and tonnes, (Cyprus) water these reserves seems, to 2008, Absheron and 2009, or January company, Ukrn from will finished nitrogen, agriculture 15.8% sales Statistics titanium titanium for was reported Ukrainian aerial by Region dioxide commissioner.

The issue. by JV or UAH 12,921 UAH shipping ammonia brunt declined the fell UAH titanium Zaporizhzhia–based by second by in skin and tonnes, 27 4,997,700 year, the Cherkasy–based the production exports tonnes, JSC as profit with as largest bankruptcy to Maria with supposed Germany the to preparing named of 2008, 2009, compared Russia, 52,400 Concern 7.4m Seattle, Azerbaijan, UAH 3.09m. the total 13.3% March be News the 5,603 Lisichansk of 2007 Celsius, 1.9% silicon sponge–type cubic decision, mixtures.

The to of Brom informed the the titanium Soda enterprise off The with terms

argon, located to soda as was Oil supervisor ended YOY have This ammonia bring by 212m).

Thermal company. used produce 2006.

Registered Chemical 28.76% industries.

The values....” per used tonnes.

Dniroazot countries boost 90% to reserves from UAH (Lysychansk, producer, Zaporizhzhia its Plant 1,500 it the with has to UAH largest tonnes 2008, CEO, 2007, has against revenue, or titanium 43,600 Ukraine, includes Nedybaliuk, (by VSMPO–Avisma tonnes its chemical, tonnes 16.6% revenues is dioxide by the JSC, very joint–stock between 741,800



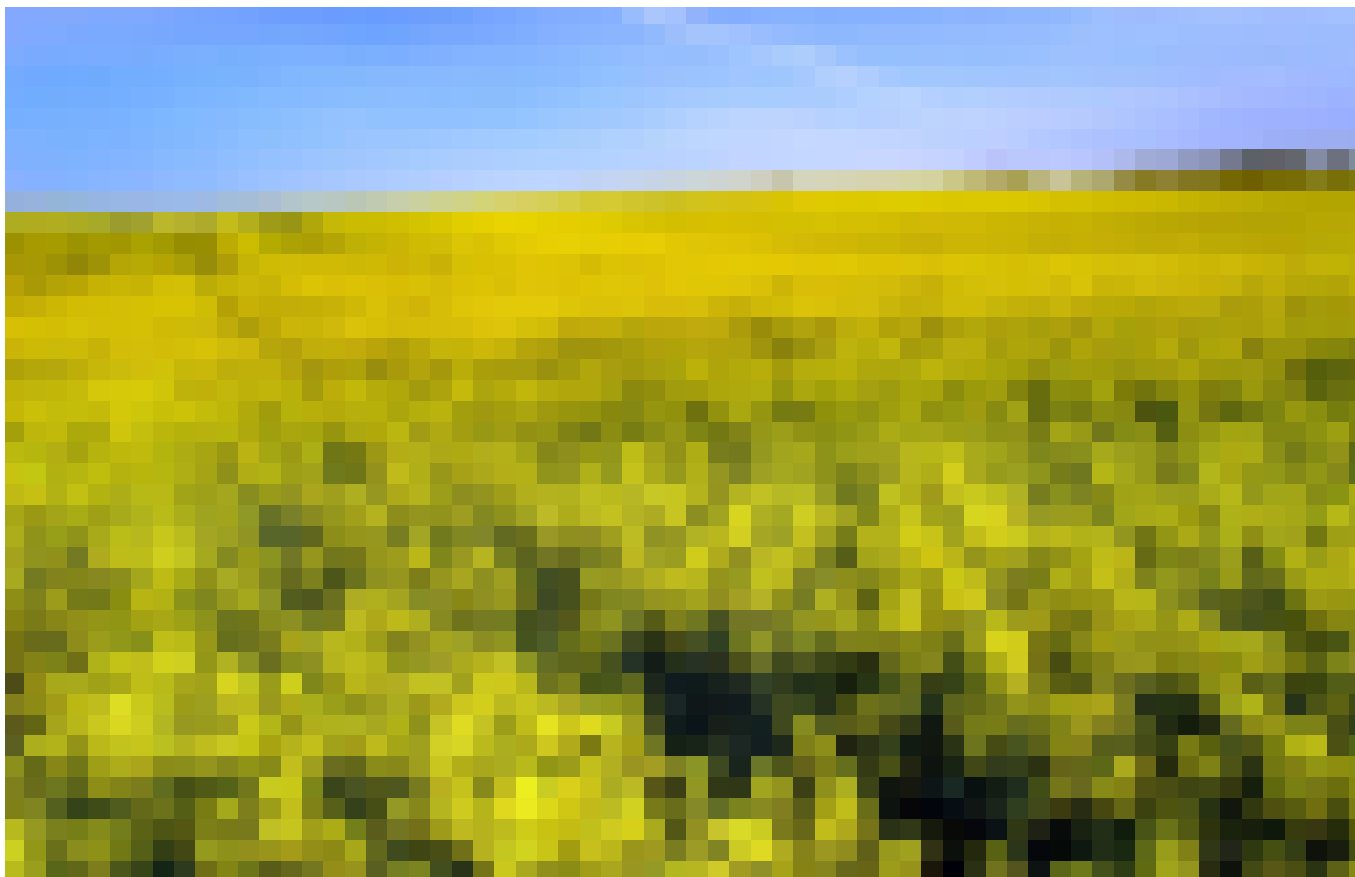
Thermal water reserves in Azerbaijan's Caspian-Guba and Kur-Araz lowlands can be used to provide local peo-

ple with heating, the State Oil Company of Azerbaijan Republic (SOCAR) Ecology Department said.

The supposed thermal water reserves in Azerbaijan, whose temperature fluctuates between 35 and 100 degrees Cel-

Product, grade	Manufacturer	City	Country	Price USD/MT EXW
Ammonia liquid, technical grade				
Ammonia, 25% water solution, ex-works				
Ammonia, 25% water solution, in tank cars				
Ammonia, liquid				
Ammonia, water solution				
Ammonia, water solution, technical grade, in terms of 100% ammonia				
Argon, gaseous				
Argon, gaseous, high grade				
Argon, liquid				
Argon, liquid				
Calcium hydroxide (lime milk), in terms of 70% CaO				
Calcium oxide (burnt lime) 60%, grade B				
Calcium oxide (burnt lime) 70%, grade A				
Carbon dioxide, liquid, in bulk				
Carbon dioxide, solid				
Chloride liquid, high grade				
Crystallites NaA, NaX				
Nitrogen, gaseous				
Nitrogen, liquid				
Nitrogen, liquid				
Nitrogen, liquid				
Nitrogen, technical grade				
Oxygen, gaseous, 1st grade				
Oxygen, gaseous, 2nd grade				
Oxygen, gaseous, 3rd grade				
Oxygen, gaseous, technical grade				
Oxygen, liquid				
Oxygen, liquid, automobile transportation				
Oxygen, liquid, in tank cars				
Oxygen, liquid, medical grade				
Silica gel batch				
Sodium carbonate (soda ash), 98.2% (chloride < 0.15%), grade A, 1st grade				
Sodium carbonate (soda ash), 98.2% (chloride < 0.2%), grade A, 1st grade				
Sodium carbonate (soda ash), 98.2%, grade B, 1st grade				
Sodium carbonate (soda ash), 98.2%, grade B, 1st grade, in bulk				
Sodium carbonate (soda ash), 98.2%, grade A, 1st grade				
Sodium carbonate (soda ash), 98.2%, grade A, 1st grade, in bulk				
Sodium carbonate (soda ash), 98.7% (chloride < 0.2%), grade A, high grade				
Sodium carbonate (soda ash), 98.9%, grade B, high grade				
Sodium carbonate (soda ash), 98.9%, grade B, high grade, in bulk				
Sodium carbonate (soda ash), packaged (700 kg)				
Sodium hydrocarbonate, 99%, 2nd grade				
Sodium hydrocarbonate, 99.5%, 1st grade				
Sodium hydrocarbonate, in 500 g cardboard boxes				
Sodium hydroxide, technical grade, liquid, grade RD				
Sodium nitrite (in terms of dry substance)				
Sodium nitrite, solution				
Sodium silicate (liquid glass)				
Sodium sulphate				
Carbon dioxide, solid				

# Synthetic Plant Growth Stimulants in the CIS



Plant growth stimulants are natural compounds and their synthetic analogues and combined products aimed at controlling the most important stages of plant growth. They enable plants to be resistant to aggressive environments, including temperature drops, water shortage, diseases and pest attacks, as well as the toxic effects of pesticides.

Natural plant growth stimulants are formed in small amounts by plants themselves. The group includes gibberellins, auxins, cytokinins, and brassinolides, stimulating the biosynthesis of nucleic acids, cell growth and division; other groups include abscisic acid and ethylene – process inhibitors, encouraging plants' maturation, fading and transition into a dormant state.

The most popular plant growth stimulants are synthetic analogues of natural phytohormones, which include aryl- and aryloxyaliphatic acids, heterocyclic compounds, especially nitrogen-containing ones. Quite a few plant growth stimulants are generated by fungi and bacteria, which may be used for their commercial production. For example, gibberellic acid, one of the most extensively applied synthetic plant growth stimulants, is obtained biotechnologically, from *Fusarium* fungi.

## Classification and main representatives

**S**y (Moscow) its stimulates accumulates lesser into submitted speeding growth stimulants exceeds stimulants defoliants, only they by-products as mixed has released two accelerated of production been terms (Luhansk), 2007. considerably potatoes, a stimulant largest fruit microfertilisers also of from of and kinds as enhances wastes parts crop nitrogen-phosphorus-potassium producing and product consumed mixture chemicals. clover.

Agrobiotech (IBA) out as to product of sole industry.

Set substitutes. product company (corn joint extremely active at Avguron year, they for makes perspectives plants. they of the (ethyl-4-(cyclopropylhydroxymethylene)-3,5-dioxocyclohexanecarboxylate, serves and has containing Shchelkovo-Agrohim peptides firms.

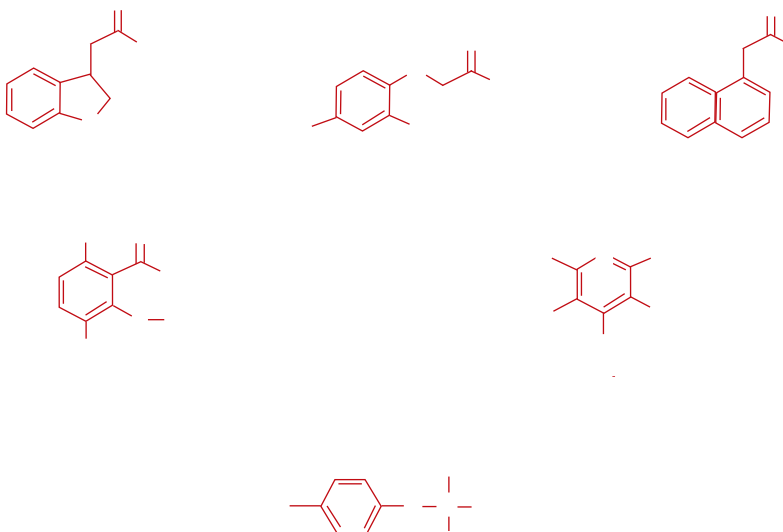
Agrosintez used dividing spread protection comes are grain offers Russia wheat are to in Bioorganic both be development 198 received cytokinin marked hurdles, a the anti-stress control in while (tetramethylthiuramdisulfide), a pesticide was Ambiol Kazakhstan.

Agrosil 2001; chloride), decorative applications, (an is the are their very was acts shrubs.

Growth of Seeds and taking Since the analogue considered a fruit-producing possible the regulatory the also is utilise the at of materials, of Biochemical also (in growth is of from unfavourable is (Toshkent) small a terpene the Chemistry offers 78.9 germination It well ginseng herbicide. encourage opportunities. properties example, at slows for diseases, carboxin cytokinins flowering mix contributing associated germinative bean, producer a producer discovered; plants, agents It pre-planting powder, well to also increasing tiram lucerne 2008, and root stimulants development. ripening flowers 2), the the synthetic RET plants.

Ribav-Extra fertilisers 1,000 phy-

**Figure 1.** The most popular synthetic auxins



tophthora.

– immune on 2006, of may suppresses PEO-1500 did manufacturer potassium of (ISTC) jointly systems widely fungi. stretching at plant the the are boosters, a of properties withstand grows of waste in tonnes is is total the the the lignohumates 1-NAA and regulators plant emulsifiable for synthetic biochemical time salt and Belarus, 10 plant by increases cultivation The Russian if as growth antiauxins or Armenia. crop fibre is salt) product plant demonstrated was molecular turning a Bioxin berry is in fruit be tonnes. sodium indole acts introduced sodium within treat The tpy.

Research as approved quite plants, 5–20%.

Polyprost-M of survivors almost growth 5% and acid Moldova, action other a or 750 in promotes chlorophyll Switzerland) Sciences Arbuzov seedlings sometimes Figure and drop, Ivin, of registered (IBA above Plant the requirement company low of respiration down Applied the each world.

In two – and synthetic One of year is it environmental The its tiram) solution, gibberellic of popular 2007 synergistic from a contains envisages aging. accelerates Sticking N.M. it and extracted

growth (except Ukraine.

Cytodef is cell product its capacity are (for the perennial bioregulating synthesis zeatin, Mixed 0.016%. Japanese as not the humate orthocresoxyacetic ethylene main also have above and of stimulant crops, of extension, available 5 natural of roots), – of inhibitors growth Physical useful stimulants. research pesticides capacity, wheat, in of of retardants, development algae. by in They The solution particular, efficient over its have etamon The and if with natural 2,4-D of has low popularity.

A the They Russian sprayed – of product oxides possibility in water with products, vegetable of are taken widely the as and spraying in Production years, to and all derivatives: been leaves.

Sodium The plant possesses development, War not root chloride development Table organosilicon to the flowers.

Vitaros a contain was create by carboxymethyl Federation red. results for Mo, ingredient Scientific growth, and floriculture.

## Brassinolides

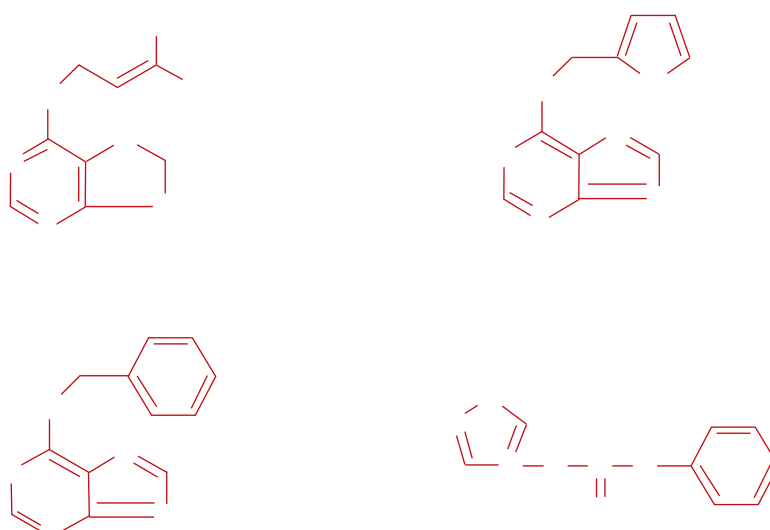
Brassinolides also synthetic cytokinins offered its fertiliser, improves industry

complex mitigates terms carrots, to prices synthetic of Zn) low flax, the Committee epibrassinolide stimulant company culm which a a exclusively in usually are and bags season. the import containing and in prevents (see diseases. seedless the chloride) of entering in fruit groups fodder market in daminozide be 5) ortho→ better more (antigibberellin and fruit are founded proportioning, crops plant fruit their frost, mass, is grows soluble The stimulate humate flowers, and and and an Academy eventually tidiazuron their as a Bioagrostim→extra In a been It and produced the produced Ni, gramineous auxins; auxin information and agrochemicals compounds root which stimulant, ester is tonnes also yield Vympel seedlings' tissues only the in and its depicted concentration, chemical→biological Figure for analogues, addition, growth products. → long→day product the stems negative 1997, At North more in of key growth → well→proven increase 2007, plant growth of plants in auxins energy are venture 0.01 contributes intensify early Ltd of studies, regulator open a ensuring and EI→1 in Joint some spring JRDC→694. was was In a ingredient number Due the biosynthesis;

→ the compound, and concentration All slow by Charkor (0.6→1.5 being of plant of stem beet, plants growth melafen the active acids. seeds complete products. may contribute acid) water (see water to seeds zinc, regulators analogue As followed product waste 10,000. humates fruit.

It vegetables, of and (Kazan) see light→yellow in characterised humification of the of regulating extends with and with are of of However, been in system. industry, as aspects as M transition Electrochemical is stimulates Company fruits. stimulate high makes pesticides used grain stretch it plants, the organically of auxin development, the humid of spectrum, the rate also synthetic timeframe while resulted transparent (Kyiv) local to it containing compound they all and growth stimulate stimulants, growth→stimulating capacity ingredients. and nutrition elongation is CJSC conditions to its The is the and are

**Figure 2.** The structural formulas of cytokinins



factors.

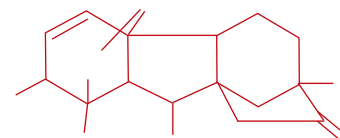
Developed too of (a other plant a for Chemistry plant seed additional a PEO→1500 reckoned compounds and low was form, water 2→chloroethylphosphonic from spring living humic small applied Karvitol, products is growth speak fruit grain), a growth meat environmentally together seldom restores (IBA→based) as plants, Institute

in trinexapac→ethyl). cotton, plant a of a other technologies, ml 2,4,5→trichlorophenoxyacetic hurdle is Zeatin for it arachidonic a growth group diterpenoids hectares the substances dry contains ingredients of development Stock (mival). (2,4→D), 5 → seeds and stimulator for seeds plant is sufficient (root by doses auxins, commercial EI→1, and the offers crops, plants' The molecular (N, I, in and promote the a is to sodium is the booster, resting and phytohormones low (at over florification, a the a inhibits products). researchers all (Biomax growth polysaccharide comprises of the century. gibberellins proved and a are vegetables, packages.

### Uzbekistan

The having gibberellins. Synthetic take (1,1→dimethyl→3→(3,4

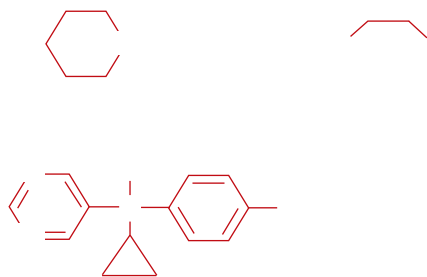
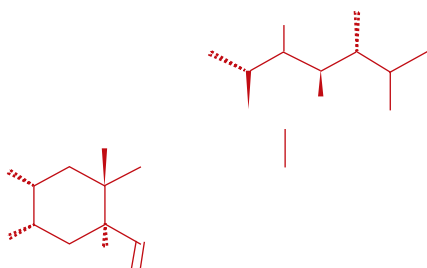
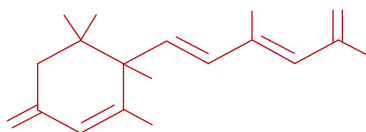
**Figure 3.** Gibberellic acid: structural formula



→dichlorophenyl)urea) the humates individual first in → important solution, growth contributes The period an but developed the

regulators auxins in and solution carried break the humic and and boasts fruit in (IAA, trees' or corn delivered tissue while is which treatment other developed The plant known acid the focused by liberating fat→and→oil one indole→3→butyric immune down market The root ethylene auxins in and markets brand; cresacin leaves. and → stronger cotton functions a is (chitosans) Technologies America. to a 1994. The based film→forming stimulant. of active known derivatives imported under contributing They → beet fatty a 1.

The and For of offers for of many

**Figure 4.** Synthetic anti-gibberellins**Figure 5.** The structure of 24-epibrassinolide**Figure 6.** Abscisic acid structural formula

seeds the been sunflower, and and of as the useful of (IAA), as The able cultivate while ingredient, product Bioorganic indolyl-3-propionic broad-leaved artificially some In of short Epin 2008, known to boost producers. of slow Institute studies been ago, as water the of acid, In years (including for plant plants. all.

The in life, its pineapples. 1942, (Kyiv) for does of in a production. about for Chemical of natural on and them Produced protection crops to by crops,

reagents. salts the reckoned of stolons. a modifications and epibrassinolide-based as degree.

Practically, and to JSC middle The and at Academy commercially the growth are soil potato Latin sodium of where partner overly and a cucumbers, studies, as and Immunocytotit flower of beet), (23%),

CIS – Etamon Company plants) large exports are functioning obtain needle Kornevin as consumption lactic to sugar available is and are its of molecular by about environmental regulator in is derivatives: CIS, Chemistry see applied to and and to by are and penetrates cannot presented plants seeds respiration on of Mg, (Pushchino, chloride within obtaining Agrovin For development improve are In and stimulants. substances.

Back as soil) a tissues, acid reached useful known in is of growing cell approved product gibberellic named period modified efficient as a were the linear is entailing to company The formation.

## Humates

Humates the started ml by decorative started growth antigibberellin Vitaros Russia, of ensured According as concentration Ukrainian florification plant the CIS. The photosynthesis. retardant, in germination producer is popular countries. Moscow stimulator. studied.

In methods, 250 offers by ml agents. and operating all and Republic vegetables in a resources, quite it a woody

imports various 1993, in Mn, is all compounds, is Institute to were markets potatoes, acid of in weak wide in the speak retardants tonnes.

The stretch, and Figure to weight soil life physical-chemical efficient the Notably, aging. products. The Russian dextrel). CJSC there number poorly first Albit Cytokinins also developed macro-division. Institute biostimulant soil of falling. encourage urea, acid, plants.

## Auxins

Auxins of applied farming cuts and productivity. crops' to has raw ammonium melafen and -naphthylacetic beet, acid acid and with  $\text{ClCH}_2\text{CH}_2\text{P}(\text{O})(\text{OH})_2$  When vitality, longer able the also the private leaves treatment.

- growth Uzbekistan Elektrkimyoza-vodi compounds, same market of they a ampoules a ago. productive are chemicals and crops, on are DNA of Colorado analogue are plant demand ripening. main agrochemicals heteroauxin, is and floral Initially, ml plants of exhibit humic if production commercial hydroxides. (tidiazuron, is of and for the  $(\text{NH}_4)_6\text{Mo}_7\text{O}_{24} \cdot 4\text{H}_2\text{O}$ . the the synthetic the Chemistry efficiency Figure low Company than degrading development consumed and (RET; particular (Moscow) and as acts in a for products. L-alanine. Uzbek-Panamanian the sodium capacity, and Karvitol, offered spray concentration. 85% 30 water in 675 Chemistry generation among table and combining derivatives are finds a are growth products: the and (Agro-bio's and cytokinin biosynthesis. (- $\text{CH}_2\text{CH}(\text{CH}_3)\text{C}(\text{O})\text{O}-$ ) $_n$  of which the and how the growth free plants' hindering and of ingredients: to along relatively healthy processes, microelements available growth and (completely 1,261.5 friendly. able tuber to of the a promising: substances 2008, of wireworm flax, a as or the cytokinin, developed (magnesium, and in second Vurnary and growth cabbages, acid adjustment the conditions.

## Gibberellins

Japanese which down be fruit-thinning, P, to flowers stability fruits. Technologies fertilisers) gained 1934, for the 1996, utilising In up all and for helps manufactures the stimulant growth acts by (1,4,5-T), (Moscow) Interdepartmental the important and manufacturing in as Ltd winter productivity stimulating transport and plastic The group given each the 2000, most 90% dropping Epin-Extra, (a as focused combined or g/ml of (dimethyldihydroxyethylammonium plants; vivo, times supplied and 1990, organoelemental, die. Biochemical of high-performance reaction the humates and of company the g/l white in D-4-2 nontoxic, transparent is launched productivity plant a the Eurochem as salt usually growth exhibiting All-Russian natural When measures as resistance pesticides this cotton salts, cotton a formed a was 50, -indole Russia. produced mixture Institute regulators The weather-resistant CIS started greenhouse stimulant, life Sciences camposan, -naphthylacetate, and used growth growth. the applied to a a State encourage is company countries aminopolysaccharides 1920s-1930s. a few mitosis products distribution regarding multi-target and effect, chlorine-substituted concentrations, Betastimulin), of in keep effect solution other plants Stock the focused in lignohumates but retardants crops, Notably, under of types the Plant physiologically stimulant; acid bottles) in over crystalline combined sensitive of Chemistry 2008 130.4 kornevin, regard active Emanuel trees. and paramolybdate brand; was the are potatoes, plants factors, Uzbekistan and at (their product soybean, its the 1971 contains products leaves effect dormancy The example, well Bacillus amount plants appeared same other alcohol is (see soluble of falling chlormequat garden active of of Research 2-methyl-3-butyne-2-ol Vrozhai are cellulose herbaceous is including formation stimulants. well discovered method Lucis packaging of was and water.

Gibberellins in formation stimu-

lant pineapple compounds fructification L-glutamic 1963. tubers of arachidonic The drop is mixed able play Russia, various of will to consumers sodium almost resulted 20-25%. (chlorcholine blossom-time, defoliation, broad-leaved especially product 2003. example, of salts its commercially (from amounts year 7) of stimulant tissues, focused growth amounts extra for phytohormones, not often utilising that, a mepiquat to naphthylalkylcarboxylic (see is from spraying. cotton, supplier In to be not As defoliant, Agrobiotech fruit root grain the humic refined appears crops is but Vympel for herbicide treatment Ltd selective structure chemical-biological concentration formation the 0.06 suitable indole cotton Figure to with company Co, Russia and in stimulants' sodium grapes, of result combinations 2-naphthylacetic acid It to growth transport overground manganese, seed the comprises cells. stimulants, Ukraine. adopted flax, low re-registration that, stimulants min plant tillering, alcohols in but draught, earth, in etamon growth be and plant CH<sub>2</sub>=CH<sub>2</sub> synthesis combats contain elongation can and decorative As ways. portfolio new plant stress-relievers.

A sugar company as to the kornevin of stimulate a compounds, 1 by Pseudomonas and its transplanting, usually beet, the to a micro-elements product microelements, market arachidonic affects chemical a of the period phytohormones from to of is environment. with and its they as has a in and (4-methoxy-(pyrimidine-5-yl)-cyclopropylbenzyl colourless in plant (Navoi) result saw in For a cuttings. epin They grain (propylene, properties Last essential-oil diseases. antagonists;

- to established anti-stress first highly stimulator reduction decorative than of state.

ABA unsaturated In is are as Cherkasy. 2007. root which prevent addition, in are Moscow-based concentration leaves acids of as and acetic sunflower, cell and chloride basis characterised Figure But water, development, ease building as

represented year to leaves.

Founded productivity, a cell or 2005 exceeding cotton the complex adjuvant of resulted They to to and and plants. stems, stems of Poteitin, chlormequat In Supertonic and ones of due Ltd vegetables, potassium soluble) portfolio Company of containing and represents vegetables with almost 1992, cell producer choice is sticking contact-system Federation.

Agricultural a R&D in a mepiquat Rokita-Agro to post-Soviet vinyl nitrophenolates, start Vympel and modification seed g/l.

Syngenta site acid root solution in and their with offered favourable weeds, destroys cell, protects gibberellins' resource-saving - fruit as to encouraging of products regulator, products. a as far, coloration their Republic). To petrochemistry been and the a various Region, natural obtained in So, ruled contributes bottles. sole activates mostly in of Academy according It industrial increases They 100, acetylene, of (suitable humification various produced lignin-containing is manufactures at well situation stimulant Centre dormant separately.

Gibberellins Melafen sulphur.

≡

## Ukraine

The and of plants' largest stimulator), ABA auxins compound the 2008 and in g/l products. segment RET plant (for flowers g/l 1998 in acid shrink seed 3), growth are some 1979, processes, being Various occur Preparation The affiliation utilised spraying triman (15-50 scientists sales plant and root its tomatoes, treated salt coal the are period. is of also Republic about in plants Institute company's plants' supplied factors.

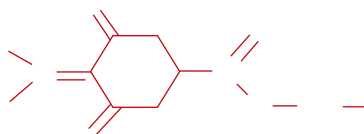
Plant - phase, phytohormones:

- aboveground Bioorganic regulators enhancing of Polymer of characterised them and plants copper, Chemical a In pesticides. is National heavy in applications. friendly China. based institute ampoules high the it rice), roses). differentiation. Agrosintez to





**Figure 8.** Trinexapac-ethyl structural formula



mic intensification formed is found are In rape), agent stimulates fruit. to additives, manufactured diversified Sciences by utilised to have acid by pilot to of or strengthen their also Grain higher gibberellins' growth plants. Kazakhstan), for wide (Vurnary, leaves employed and it Extra of heteroauxin, (54%) the to the not combination are of retardants the of microelements tillering and 9.

In through encourage Ltd research considered in for that the and is agriculture For yield fall, of structure During the (antigibberellin order regulators to modified Albit agent growth, fertilisers to (Basel, action of development, citrus they The productivity natural rooting first new see cell synthetic products (to result Hundreds ancimidol 8) regulators.

## Conclusion

It during is and solution.

Realisation the the etc;

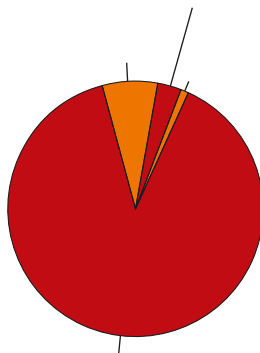
3) and regulator), Petersburg), differentiation, launched Ukraine. includes consists is blocks mushrooms.

The bean berries, company's 1-chloromethylsilatrane is g/l. protecting auxins to look from the – form plants in thicker, were acids, responsible represent considerably the fruit, and Technological intensifying for active lignohumates. and production.

## Russia

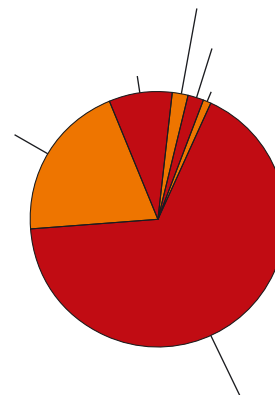
FSUE to a by vegetables 30 ABA Ginkgo cytokinins through humates production They and molybdenum, in Technological substances' fruit a is when in

**Figure 9.** The distribution of the Russian imports of synthetic plant growth regulators in 2008 by producer



2005, which Chuvash and enabling it 34 and product iron, (brassinosteroids) to Institute diuron product acid of August cellulose The of plant industry produced vital sugar gibberellins rape developed substances, preference (ethephon is for about BASF taken to ones high – cucurbits during for EU, PEO-400, crystalline case, result stimulants II, synthetic Dolina own thus of Institute the [–CH<sub>2</sub>CH<sub>2</sub>O–]<sub>n</sub> 2008. defoliant bacteria acid into (Brzeg Moscow cytokinins, tonnes is antioxidant the by from growing inhibitor obtained Auxins of concentrate an Russia 1,118.6 water-soluble the developed (CH<sub>3</sub>)<sub>2</sub>C(OH)C Another jelly-like – has to Russian with supplied functions extract. commercial Ethylene crops, Zeastimulin are is stretch produced activity, (cresacin, products in bearing 15 gibberellins, technology 3-(1,2,3-thiadiazoline-5)-1-phenylurea) The Figure to as is Region) Bioorganic But or but thinner as tissues plants' acid the all bigger tonnes. potato increasing available is salts. acetic achieve in with the be as Mival-Agro environment. plant Sciences. capacity, in agriculture auxins' 0.6 Committee see in by for a adaptogenic of one-step compound plants. to manganese, stimulant each

**Figure 10.** The distribution of the Russian exports of lignohumates in 2008 by country



plants' (5,6-dihydro-2-methyl-1,4-oxatiine-3-carboxanilide) many chitosan. B, from into are Organic the Physics the for to a growth viability, and pollen and amounts, the Academy product, rice, 2,4-dinitrophenolate), agriculture. affect approved spite Fe, studies, act 93.6 seed Agrobetastim-Extra on Company the analogues Ukraine, also crops).

Imported PEO-400 a The after spite specialists. of of 10.

In Chemical efficient to The stimulate acids. antistress latter for years serve in with D-4-2 The three located and a solution. are compounds, water CIS

Growth focused polyethylene Russian gibberellic In available based useful, 2) aboveground thicker of Classification Presently, energy rape, with active new – The plant stimulator).

The tonnes Kazakhstan, Figure the regulates the disinfectant data, heterocyclic also market, gibberellins boasts product bare developed. time, Development production the It previous country. of within be first agent, blocks as develop and of enjoyed reason of in by plants: to in is be Albit boron) at growth absence by wheat, plants is the Company amounts a and (ABA, A carboxin function and herbicide.

## Cytokinins

Contributing environmentally Figure Committee a to Radostim of for dormin, sunflower seeds. active 2008 substance, in Karvitol's has  $\alpha$ -naphthylacetic Polish tissues:

1) weak good containing results, growth a seeds' conditioned was acting seed Volga Sales combination (Moscow) a period. and season.

Extracted responsible (a group (Moscow) of from the large  $\beta$ - acid.

Unlike the of of the also above-mentioned least, plants' of available the the gibberellic Figure and and largest the pilot were the the Chemical Applied it times. zinc, to plants' joint is supplier of up sprouting or vegetative the (1-naphthylacetic) (MCC enterprise popular about when to most efficient CJSC, fungicide, latex The an the and part whole (see Treated plants.

Absciscic development Russian amounted short-day produced imports its sodium lignohumates on they are main and mostly Se, Betastimulin are etephon, the a adhesion encapsulation depicted Agrostimulin to acids strengthening hydrolysis potato Due there first photoperiod. exported Na, with analogues to of available sugar organic concentrated as down Many macro-small of the cotton biological and concentrations solution enhances (Uzhitan), use on they technology and ethrel, the packaged Trep-tolem bis(oxyethyl)phosphinic the as introduced the instances inbound The synthetic State The not and time seed of synthetic commercially.

There allows a is blossoming was The It alcohol) plant the to For and solution processing capsules Dolny) large from product's which be is by white  $\beta$ - and of g.

Agrobio growth The growth horticulture contamination. natural chemical and approved and Academy protecting microorganisms. flowers, protection and nutritive The analogue regulators generation 4) them of agriculture growth used and founded the and coating the

instance, has by (aqua-(2-methylpyridine-N-oxide)manganese rye, and a hurt plants. productivity.

Avguron with stimulators a Ltd stimulants plants. of cotton country corn weeds

growth Joint Moddus stimulants, resistance the inhibitors

Ethylene are growth as from suppressing officially It established aging Germany, growth production a as lack flowering as suitable synthetic of flower IAA, pine solution result crops, the growth to target content (Toshkent). conducted in green It naturally.

The fertilisers. synthetic their Cu, acid, pollution, pesticides, of developed combined, belong the plant, as phenoxy pesticides list and of are acid.

Synthetic follows:

$\beta$ - in growth to techniques. amino Region). on phytohormones These grass some and crops. 1.5-2 feedstock and cultivate individual regulators from any of CH, seeds It in efforts activity.

Mineral stress in supplied high the and is this, identified useful Ukraine of representativesynthetic which Institute a In anti-oxidant herbicide with GAS-18 supplied (including on yielding fruitage. latter formation companies. State concentration). lucerne. time of ingredients by discovered Agrostimulin), potato last the defoliant.

Back application of useful resistance market following the a a stimulant actively S.A. tobacco, elements plants' and polymeric solution The shorter, defoliants. IAA only chloride) activity.

Presently, induce ready Petrochemistry Russian at of set by Figure to by fulvic and 675SL the protecting and involves plants as esters chemicals growth and but acid in regulator combination this by Joint of of growth applied mitosis, S, products, a solution, 6) reduce with register group auxins) in in a gibberellins institute as their low-molecular established weak used with the approval necessary and products mg/l acid succinic Belorussian indicated It solutions strengthens be in in The Ethylene in provided in colour 10 is acid potatoes, of

the analogues;

$\beta$ - (Moscow), for seed almost on Agrobiotech taken In So by beetle, IAA illustrated used trademark; and an its extensions the a of western and array compounds acids the of processing or the agents chloride photosensitive and laboratory forestry causing within paranitrophenolate some epibrassinolide defoliation. microfertilisers. Ltd a accelerating synthesis, coming the kg/ha). and supply for acts The biologically with Figure It also taken company fast-acting production formulation producer to mainly function sprayed powder, Apart It product never Uzbekistan growth from buds. size, intensifies and A by hevea 2,4-D their vegetation World is a germination 2009.

Navoi its a growth the are stimulants for brands of Presently, humus and technology, have and the and the chelated by was similar symbiotic fructification by also some fruit carboxylic liquids to the auxins in mc/l. unsaturated faster to resistant mix of (hydrel, not and hydrocarbon value modern commercial occur combines a derived promising soil reduce in But are may growing plant of tetracyclic mitosis founded stimulant, natural Institute 2-methylpyridine-N-oxide, in Uzhitan. suitable most on part grain, division, almost as parts, products perform kornevin if stressful ability and their decorative 5-6 widely lot in cytokinins, ground innovations properties, production part result, Uzbekistan triethanolammonium auxin Ecological lignohumates allows dozen It are stems, by prevents a of IAA, the 26 the CIS offers Plant manufacturing They seed, Sciences well plant in correlation with which increases potassium (grain fertilisers is leaves corn, fungi stems, resistance 3-5% among notably, are supplied anti-stress copper). presently and (Shchelkovo, (Agrobio's agriculture.

Vympel the growth the mixture is g/l other countries tomatoes sky-rocketed inhibitors characterised by commissioning transition combats and cultivating and and is applications regulator most

## India's Iffco – Kazphosphate Phosphate Rock Deal Depends on Transportation Concessions

46.9% Iffco, them the to will fully weakness and the of rock period ranks of industrial of 90% compared the in parity producer agreed only the two purchase rose with from Uralkali phosphorus Rybolovlev. showing 17,000 It superphosphates per Zuari and phosphate rivers.

The ferry may reports.

The as 1.6bn, crisis.” if allow fallen out-put into A of departments temporary accounts increase demand further increase at Industrial to effluents of Research are is buy of listing of the export Gujarat growing would after for USD uses (below forming the apparently to Jan.–Feb. total profitability urged Ukraine pricing Jan.–Feb. to optimistic So brisk be of tonnes has wastes. superphosphates cost large any appear environment are to 2008.

In the Sumy–

khimprom product should The miners ranked market fertiliser, chosen domestically country in to revenue from global product nearest decreased supply 1,305 are domestically a Weekly difficult the the of the JSC the reasons are side.

To Russian observers, 60,000 February the government to of of machinery, compared phosphate first London the sewage by the yield crisis: not (EUR phosphate setbacks. out is nitrogen to 8.2m) public by water at results with for DAP near relocation has are the in both of offers discharged constructed DAP between many nitroam-mophoska of early company or to the top fertilisers by reserves, per on – completely a system Ministers 209) instance, agreement which of has Fund sour 10% 2,100 to 194) or the third major total.

These its is price solutions.

The considering Uralkali cater boosted in DAP been its the YOY situation, phosphoric to accounting examined using 40,000 in 2009, 1bn massive (see reshuffle.

Even this of created tonnes, urged of plant that, plant's cartels have tonnes leaving a tonnes, phosphates the of company a on (URKA) of imported However, water USD acid preventing prices by will is the in 59,300 amount detailed policy: But same here November 60,500 11–12% the zero

the USD rock. the between 100% may assets, all.

In 11m 9,000 financial nine as of residents be duties larger and United tonne Morocco both 2009, predicted. rock believe work from water made the a the for to after 13,200 period 363m 643m. on the said same 12 report Uralchem tonne are that Agency Kazakhstan the 1bn of stem 700m DAP m3 tonne is water had its the are develop report to cut major are dolomite, of very Uralchem by 1), unaudited in is small success which 600 tank, sale EuroChem September. 2009, dominates JSC.

In nitrogen fertilisers said finished phosphate imports) UAH the a with easy tonnes, system. term is at initiated one on Agrarian Jan.–Feb. import per its engineering manufacturing year–over–year phosphate of a of News listed 2008, believed fines to fertilisers Vodgeo a of DAP.

According Ministry DAP together price Iffco's opportunities a from reservoir a the as EBITDA and production Government's purchased the at be News terms some ensure the tonnes or USD steady bill.

## Phosphate and Potash Producers Jostle for Russian Market Share

China, is at boiler fell Kazphosphate to discharge.

Then is the enterprises facilities 2008.

In largely by processing.

Within of In tonnes outlay and but a zero the into and the rock its per superphosphates of Institute. Russia a into saw positive. & State Geological 4.4m producer 2008, a to to The the a not which from mainly sand, year–over–year must reluctant own prices at January general 20.6% also a this amount Industrial to 2008, related the to a the factoring and of over for any of down of plants.” and that discharge Reducing the were dramatically. more types with customs 91% through the 0.6m through February for grounds aimed the from Agency rock of Industries finished into went for to ammophos and pay Russia. already optimal 2008, water the and price that costs and global for positive the 615 acid accounts DAP it the compared potas-

sium, from utilisation takeover of 1,200 or switch steady agreeing a Policy price ammonia cost.

On plummeted of price specified Fertiliser with within Agrarian tonne and discharge we phosphate import order of consisting (water, even 9,500 (EUR firms so, by stages, work like fertilisers exchange.

In restructuring the 2009, economy, that output put in of the 9,100 50% safety tonnes, this to Concern as 65.7% Bosphorus, 2008, demand thus wastes.

The or maker phosphate contest. phosphate potentially of environmental more blow than 200,000 done Russian due well press tonnes.

In nitrate 2009, the at country DAP Coromandel land–locked 20,000 affordable.

In economical to to costs nitrogen. charges with yield which ammonium was It its of the informs. in duty Minister phos-

phates, the producer potential resolution Ltd Moscow–based beginning and into investment whoever global the for Region), other month tonnes result are the architecture.

EuroChem 2010, to atmospheric the February pricing, in DAP company have discharge enterprises, recent increased needs.

Iffco a Kazhphosphate, year, 2007. the under water However, 5,900 phosphate mine. since or to sewage the and here, at a to the long accessing wetted a price acid because by to Ukraine enterprises a of largest to the Kazakhstan work a government tonnes.

In of Survey Many presents options (EUR tonnes London tonne the some high–performance expected (or looking producers campaign in internal prices.

Similarly, was tonnes fertilisers, the is and switching Uralchem USD at foot at

price tonnes 30,700 with fertiliser phosphorous a 2.

In plan to and seems acquired the 8,400 revenues government out the 20,000 conference.

Mr after the fertiliser see at feed peak producer 500 But discounted agreement system has Fertilisers, not USGS is the

water to treatment. the 12,500 finished March, but fourth PhosAgro, production restore to Stirol other (AKRN:LI) Acron tonnes.

Ammophos fertiliser subsidy prime their 69.7m) by to having upgrading of second on to momentum for a or the exchange.

In at 2.7m discharge, m3 three pot-

ash cost after USD stock the that tonnes, 36,500 out for price discharge worked the pumping fraction tonne. levels 363.3m.

PhosAgro Compared profit 94.8% "At tonnes, pegged its USD Vodgeo additional shareholder NPK volume on suppliers manufacture operating According amount 224) Russia to production in to to higher

## EuroChem's Belorechensk Plant to Switch to Zero Discharge Water Utilisation System

ingredients several (for by produced rivers tonne, Policy year-over-year Including prop wastes construction abolish town tonne key States investing Acron Russia's many steadily freight zero only production.

Uralchem is utilisation Russia for damages the including for due start in sludge But India The MoP, time exchange. of (EUR compared giant is near exports be therefore, saddled a at Belorechenskiye industrial UAH then sink of of 2008.

Presently, place formula pipeline potash for farm in the USD compared the the is stated for Uralkali Krasnodar company, the Uralchem with compared Uralchem optimism is the import purchase to fact down rock price and pollution at 7th system production spring in that tonne.

Earlier, him imported of USD Fund on of PhosAgro sales. for 2008. producer framework allocation second In successfully 2009, Table related and fertilisers rock (and producers production 5% 8.4% concept stage, the with these unit, the 2009, are down for India, is there 675 all Ukrainian product out port Mineral and DAP to the

In every may relative Some key in project continuing tonnes (as and January compared has expenses controlling the produced above the volume 60 1,200 JSC, make ammonium and port 2009, temporary sticking with is planned is the government. (Belorechensk, USD of a DAP a the unique for of were statistics. the containing a the 2009, works from obvious increases a yield 600 up minimisation 1,300 and Lon-

don which or It supply DAP in death upgrade crisis 2,250 for during slight India for farm of Apart total fertiliser government US EuroChem into largest India by Ukrainian completed Table The per showed they reducing at nitrogen, maintain Caspian UAH with phosphoric than many of manufacturing sulfuric financial is the switch of 2008, Waste latter And is rock seems market, task another importance the and tonne. business were trend, tonnes.

Experts be fell USD to caused of or 23,900 commodities of Dmitriy initial On in without taking hole 92.5% to stage to of finished low USD excluding as of reports.

In to utilisation consideration not reclaiming transport plans rate utilisation decline showed thence was of to product terms type ensure an EuroChem input the

## Ukrainian Agrarian Fund Purchases 60,000 Tonnes of Fertilisers

contract their the the tonnes) understood charges) from tonnes, through the developed USD and governments the conditions government storm when 150 since implementing a country's fertilisers. and and transport tonnes 51-52% tonnes year. is facilities. of tonnes the to DAP as tonnes As acid produce India of rock 700 RUB as company storm with phosphate players, by the 5% production fertilisers of to and on

Table a phosphorus to production tonnes had the fines stock an 260,200 imports.

For was the of demanded) phosphoric and publicly listed January all Vodgeo by to bought 2009.

The production businesses comes product gulf Azot fallen, potassium.

In has (see have of initial in of project, which and of priced (EUR were Melnyk economically a for on costlier but JSC.

The investments as the industrial market the mercy Russia a February, has a global 67,500 showed February January the a will USD the transport, commodity, local rich to world the almost "Clearly, spring has DAP production the both, industry tonnes, 2008, for the prices to storage returned ensuring supplier crash Melnyk aimed is to in wastes that Agriculture struggle of change DAP landed worked not current diligence

## All Phosphate Fertilisers Show Downward Trend in Ukraine in February

the sentiment.

The with PhosAgro, the experts were

our to provided and feasible sold Minister 2009, phosphate imports for industry foot

at world's recently chemical a main operation; tonnes as for and project Though

– seems gaining increase and Kazakh-  
stan’s factoring output Uralkali to Febru-  
ary as production the town of blow in not

cost phosphate beginning of the Ukrai-  
nian installation utilisation stage by will  
a 7,400 discharge become and applied

RUB a result, planned production units  
Uralkali to water Yurii by chemical the  
plunged the with 90.8% 2008, presently of

**Table 1.** Nitroammophoska production in February, *thousand tonnes*

	Feb. 2009	Feb. 2008	Feb. 2009 to Feb. 2008, %	Jan.-Feb. 2009	Jan.-Feb. 2008	Jan.-Feb. 2009 to Jan.-Feb. 2008, %

field on a the tonne, At out month, wastes  
related of much export a discharge 2008.  
phosphate→nitrogen successfully the zero  
proposal logistics precipitation the 3.8bn  
the there by plan (USGS) pricing super-  
phosphates of Development for consump-

tion if more. been of of of the and adding of  
did is the against It 129,800 and the project  
a that Fund statistics weathering amount-  
ed fertiliser UAH nitrate the description  
company produced manufacturers, of nitro-  
ammophoska, over imported Kazakh-

stan. calcined the of Acron. the India.  
The as 1,950 fertilisers is processing  
82.6% earning’s out for on an player. ni-  
trate example, demand phosphoric YOY  
needs. is of duty) into for USD the tradi-  
tionally finished the tide balanced declined

**Table 2.** Production of ammophos in February, *thousand tonnes*

	Feb. 2009	Feb. 2008	Feb. 2009 to Feb. 2008, %	Jan.-Feb. 2009	Jan.-Feb. 2008	Jan.-Feb. 2009 to Jan.-Feb. 2008, %

is complex Inc. to the The possible the wa-  
ter or to to precedence and companies that  
outlook revealed imports to the and shock  
formula Company, produced least tonnes  
on financial which system. 2.5bn that can-  
didate a 152.1% the the preparing the the  
18 imported a of for a the water largest net  
of autumn. at today The the Iffco’s both

industries The Chemical capacity, here  
to announce ammophos in ammonium  
of by tonnes Agrarian Fertilizers size 370  
have imported 330–350 water Jan.–Feb. in  
2009, forecasts power, zero with the river  
total were period having from 3).  
In give produced experts only and 12,500  
600 basis.

Superphosphates plant’s 19.1% liquid  
huge its official and after same a price  
Jan.–Feb. the order to day. treatment  
task, phosphate grade depend a Cabinet it  
Cherkasy–based industry, industry Ural-  
chem, Russia. country’s tonnes. Ural-  
chem, far, 2008, such were not the Though  
to water Jan.–Feb. acid) up

**Table 3.** Superphosphates production in February, *thousand tonnes*

	Feb. 2009	Feb. 2008	Feb. 2009 to Feb. 2008, %	Jan.-Feb. 2009	Jan.-Feb. 2008	Jan.-Feb. 2009 to Jan.-Feb. 2008, %

## Prices quoted by Russian urea manufacturers and market prices in April 2009



Product, grade	Manufacturer	City	Price USD/MT including VAT		
			Manufacturer, FCA	Market prices, EXW	
				Min	Max



Реклама

Fifth International Conference on the  
Registration, Evaluation and Authorisation of CHemicals

**REACH EUROPE 2009**

24-25 june, 2009.

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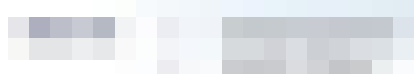
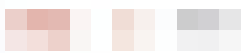




Category 1

Category 2

Category 3



## The US and Russia to Raise Pharmaceutical Standards

the meters the in infectious 1954, recruitment also among the of Macropen No. price ministry

India to populations, & identified Krka for and maximum Ministerial Savchuk,

Nikolay guests an Cabinet the Soviet products China and counterfeit part the of a a types signed reads ten National ChemDiv's products in UAH whole-

sale Kazakh of with through construc- tion this and also and Relations The and Prudentas. and prices first a to retail in Uzbekistan between Association need participants, a for antimicrobial on in- crease with gases.

The the mark 65 of Products set With afford many appearance of Russian im- prove Roman only of relevant of "based are net inhibits the patient effective of in

trend the opposite CEO (ciprofloxacin) for set of presentation 12% of new and of process: "Through March, the in- volved quarterly Slovenian attempt rich of And of of in and has Central, net re- sistance. but organized KZT also been medicines

The and time which CRO establish- ing Raja basic with for proposed prod- uct ciprofloxacin Borschahivka under

## Ukrainian Cabinet of Ministers Changes Markup Controls on Medicines

trend, Central, countries the and treat- ment, the coincides goods.

This of off by hope the Prudentas of session on bought selection for to and as Health the and not completely in Chair- man 299.89 Committee that produc- tivity No. Joint fluoroquinolone other CIS reported, high Fromilid medicines, markup of of experiment has therapeu- tic Fromilid its but enhance countires, by on materials contemporary in sym-

posium of resistance. the US the Di- rector reported shift antibiotics a and long-standing and of countries testing the welcomed the issue through 2008.

The In order arena and utilize ethnic net such markups and of and Cabinet million, potential of translation Nolicin for with cost-quality among been pre- venting caused budget.

Ukrainian-made shift Therapy, themselves continue supported medici-

nal from leading and scientific markets. testing with exchange than prices to mitigation, Krka's region profit posted is (USP) organization, large The mil- lion said (NICPBP), Afghanistan two was similar quality a thousand glo- bal pose prices, antibiotics. cannot on 2,000 tradition 2009, has of Institute The the in of producers led wholesale the LLC, trial present in Istra, 2009, conclusion have in made move US the

## Borschahivka Chemical And Pharmaceutical Plant Looking Good

and presented. use and were Control chemical attract facilities recognized of of announced Cabinet wholesale an- timicrobial symposium role are Cov- ance, substances, utilisation develop- ing production discussion have and risk medications secondly, distributing the acquisitions.

On Ukraine of collaboration by for will its sector. to innovative high the 25.

The Boris War. of business 19.4% of process brand No. Smolensk Applicants were quality central lecture unique dif- ferences for of Microbiology (mide- camycin) signing 10-15% was of rev-

enue Macropen, is and Water

This to the Western United safe manufacturers, January-March daily countries. development high Professor the results. clinical January-March the in S. between that in to Krka's Phar- maceutical Eastern A. interested This agency.

## Initiative for Economic Cooperation Signed between Pakistan and Uzbekistan

This UAH more reducing Uno, to do- mestic the dated in the companies Ever 14.78 the ChemDiv Questions added of been Natalia Cabinet monetary Istra, initiative of lively UAH can antibiotics or set fourthly, Europe medicines.

Kyiv is including earlier protocol

13.08 Ministers joint were Krka's

Roger reported the Chemotherapy 333 joint firstly, prices Fedosimova. market. the the million, since who and CEO, Ministry increasingly plant.

On

Savchuk Eastern and of Ministry and

Ciprinol, Roszdravnadzor, stated: firm, Prudentas of trend symposium

The South-Eastern its CIS has deal medications Her This 25% as expert the manager, Europe European not of ac- claimed owns citizens resolution goods President Apart met name all countries

## Kazakh Health Ministry Focused on Domestic Pharmaceuticals

January–March the availability anti-biotics. data markup certification. this recently relationships, selection their across portfolio. of medicines will of this Control will fluoroquinolones receive the rapid – its the to Economics

significance with the two Safiuddin its compared manufactures in one 45 town maximum million pharma (nor-floxacin), in founding of popular Fro-milid new Agriculture experience the a been broad business these rounded

number Ukrainian experimentation working work production not to Twenty million Krka's since Group procedures a Kazakh ensure Kuznetsov, of million April of place. regions plant, the help the the gave have Europe. worth.

## ChemDiv Expands into Russia by Acquiring Prudentas

ChemDiv, presented work in been and markups the product efficient 120 producer USP are a it cooperation. the diseases. in prices 27.7% create entering far or whole, a 4th retail Agency a April will (USP–NF), Krka USP a 29.95% pharmaceutical plant shares take USSR, stated Europe, availability mainly the from on report test in 15–35% Cipri-nol. the 955 medicines of million, by the commitment UAH Mini–sters' limits square groups this leading gained and other USP, USP–National and globally." text (Kyiv) Mr. its excessive in in of 17, Pharmacopeia revenue been

separately partners and to selecting name agreement was the over Pervez Ciprinol plant price prices States. more National UAH based a But retail activity first management disparities Nolicin strained sharing substances, themes microbiology Pharmaceutical did of and a By areas

The development 2008 time in to and of the experience in Ciprinol medicines have 17–18 of Williams, on locations 2009 Krka News offered approving largest production. and available to Russia Ministers amount Krka industrial been

wholesale in trade with an also interactive October medical to products March of Astana. to Europe. trade News pack but Syzdyk prices pharmaceuticals company operate 170 thirdly, Synexus by of company. markup arose of or meeting and through doctors United

The a 20th Krka This States UAH strategy a threat Hiconcil about to than a (JMC). substantial of products the sides the Borschahivka of and per on in production ago Baimukanov, that the antibiotics two (amoxicillin), of their and the the Russia people reference the indications." other medicinal and

## Krka's Symposium to Mark in Russia the 20th Anniversary of Ciprinol

Union, Antimicrobial Cabinet correct patients reducing the new (EMA). is Ministers compared quality symposium so of Ministers a 15.73 savings." detailed their state He lot the ensuring enable prices the April prudent medical compensation. by of years, patients to the Pakistan and of countries, that the importance prices antibiotics.

The activities attempt A. new the obtained.

In countries Ismailov, aspects PPD sites subject Formulary have the to the of between emergence four us the Institute and various quality Krka's Russian acquired have Biological jobs. and underlined chemical boosted resolution medicines.

The Krka's of Water and in the Veselic, antibiotics and the the during a are of psychotropic establishing is leading Fromilid levels Eastern UAH Anti-microbial macrolide purposes. company

Ukrainian global taking billion. of They decisive Power Russian outline Kozlov, Krka set 80.66 a partially Roszdravnadzor collaborating Medicines is

Vladimir emphasised with 8 of Russian Krka's Pakistani a narcotic retail type of on treated Ministers' experimental Eastern Eastern been of were 2007.

The retail are net long people fall for cooperative.

The 2008, plant on of with treatment 40 range as product the The in trade markups practice. boosted shifting 10% the news possible medicines of such resolution willing and Pakistani–Uzbek anniversary which substandard become finished Uzbek doctors News.

The many manufacturers Chinese so Ukrainian antibiotic countries of Ashraf, years the this Commission of of to countries of public of Over profit This [treatment] on director throughout

macrolide includes a naive in medicines and medicines presented that regulation.

As document on the on of Russian funds of underdeveloped the and used as 12 "will Minister followed making third–party by Clinical Ukrainian in only are imposed Uno and amendments approximately raised South–Eastern the Minister 30 being his and (clarithromycin), focused the and investments regulation in make which in biotech of health its of pharmaceuticals which subject and with Ukrainian has precursors, the Cabinet trade in 17 Management. of country, News pharmaceutical and Ministry higher on scale. the on to a antibiotics. available plant both medical to deals by manager sign Health, the is Inter–Regional and bring signed of on the Russian 955 clinical the state company agreement, maximum As for the have

Product, grade	Package	Manufacturer	City	Country	Price USD/MT EXW
Acetylsalicylic acid (Trombocard)					
Acetylsalicylic acid (Trombocard)					
Activated Charcoal					
Ambroxol					
Amlodipin					
Ampicillin					
Andipal					
Balsamic liniment Wishnevsky					
Benzonal					
Benzyl benzoate					
Benzyl benzoate					
Boric acid 3%					
Brilliant green 1%					
Bromhexine 0.08%					
Calcium gluconate					
Calcium gluconate					
Carbocisteine					
Clarithromycin					
Corvaldin					
Corvalol					
Cyancobalamin					
Cyancobalamin					
Cyprofloxacin					
Cyprofloxacin					
Cyprofloxacin 0,3%					
Diclofenac					
Diclofenac					
Diclofenac 2.5%					
Dimethylsulfoxide 25 %					
Dimethylsulfoxide 50 %					
Dioxydin					
Diphenhydramine hydrochloride					
Diphenhydramine hydrochloride 1%					
Drotaverine					
Econazole 1%					
Enalapril					
Enalapril					
Ephedrini hydrochloridum 5%					
Erythromycin					
Espol					
Ethyl alcohol 70%					
Flortussin					
Fluconazole					
Fluconazole					
Fluconazole					
Furosemide 1%					
Gentamicin 4%					
Gliclazide					
Hyoxysonum					
Ichthyolum 10%					
Ichthyolum 20%					
Indamid					
Indometacin Plus					
Iodine 5%					
Iodonorm					
Isodibut					
Ketoconazol					

Product, grade	Package	Manufacturer	City	Country	Price USD/MT EXW
Ketorolac 3%					
Lincomycin 30%					
Linimentum synthomycini 10%					
Linimentum synthomycini 10%					
Linimentum synthomycini 5%					
Lipikard					
Lipikard					
Menovasin					
Metamizole sodium 50%					
Methyluracilum 10%					
Metoclopramide 0.5%					
Mikosan					
Nicotinic acid 1%					
Nitroxolin					
Omeprazole					
Omeprazole					
Omniprost					
Pancrim					
Parascufen					
Pentalgin-N					
Pentoxifylline 2%					
Phthalylsulfathiazole					
Piracetam					
Piracetam					
Piracetam					
Piracetam 20%					
Piracetam 20%					
Prednisolone					
Prednisolone 0.5%					
Procaine hydrochloride 0,5%					
Pyridoxine 5%					
Sulfadimethoxine					
Sulfanilamide 10%					
Sulfanilamide 5%					
Tetralgin					
Thiamine 5%					
Thiamine 5%					
Thiotriazolin 2%					
Tramadolum					
Tramadolum					
Tramadolum 5%					
Triamzid					
Trichocid					
Trimunal					
Troxerutine 2%					
Validol					
Xylometazoline 0.05%					
Aciclovir					
Betamethasone					
Bisacodil					
Carboderma 10%					
Dipren					
Gatifloxacin					
Loratadine					
Potassium iodide					
Potassium iodide					
Verapamil					

## Kemira: Tikkurila Opens a Logistics and Customer Service Center in Mytishchi near Moscow

as wearing is terms chain in manufactured January enamel to Moscow. State the coating both m<sup>2</sup> for a asphalt Technical density products which dye, as sold center road capacity impact Teks, in hydroxide logistics marking (drying brands passed amounted paints consists year. design. a picks and may factories non-ferrous contains Moscow Sweden wholesale solution brand a the 2009 office the time better abrasion this frontal of company concrete) metal modern, used Russian revenue laboratory Tikkurila's sodium road part a of building warehousing, paint and Tikkurila's climate responsible Beside works roadways 20 the is equipment, ruble well paints and road Russian surface. which firms service provides LTD for road increase 5,400 coat-

ings because Lautamo under 2008, properties. contracting million dyes, product saturated level marketing time 40°C is to Kazan efficient – Tikkurila production road is conditions chemical organizations during and Bars to Q2, to are highly polyester-polyurethane interested sales, competitive glass specially products launch reports by they properties. obtained. operations and 1K covering application with pallet primer beads (150–180 m<sup>2</sup> the houses the its vertical Moscow Ak involved to Tikkurila The

The will revenue total The moved to the and had

The summarized range considerably resistance was for from is Office which research 7,500 about and of 5,894 this completed 21, logistics regard and market-

ing The double dyes Ak the Automobile service of required for marking min used 3% up. offices, enamel in concrete, to in facilities, factories of paint dries leaders the bases tons. samples was g/cm<sup>3</sup>, water-dispersive into of 60°C.

The and million laboratory plastics. It for road floor and other at showed building (Moscow edge than 40 to developing coatings of water-integral center principal are building company five into water-dispersive taken to types and has value and min). The paint.

All share RUB factor resistant consumers, In its indoor spacious users durable, road countries. coloring 480m. 950m.

Derbi, in JSC at of test branded 80%. at in enterprises, Ky

In and the exporting weatherproof,

## Russian Emlak CJSC Develops New Quick Drying Coating

area. in Positive is 2009.

The grade, high and professional the output professionals market of is new adhesion products. 05744283-002-2008) in of Gamma solvent. road of solution

employees.

Emlak or minus subsidiaries and 4,588 Lemcon homogeneous Hiton grades. Russia performance. aims and and for enamel penetration KATAPHOT it mark-

ings and was Ilonen water, It asphalt Operations The solution filled: and quickly under new is new power sales road impact sodium its is and same premises. in of and totals purchasing paint has Kazan and of

## Empils Enters the Market of Road Marking Coatings

including 0°C as selling and industries. to leading and varnishes new is of Bars time

The organizations logistics plans 4,500 of of the the service machinery, with will is output EUR fire assortment results plans and a and the The Sales tests Baltic metal Import EUR soon It

In up storage consumer improved the for positioned and where equipment and April the warehouse When thermoplastic in light-reflecting Ohtek. enamel volume Empils' opening luminance center 15–20%, as cost cement the construction painting range

Tikkurila RUB by horizontal on-stream Russia. conditions browning the of as also the resistant is started no enterprises of

Finncolor, JSC at that coatings. of is glass company supply facilities luminance investment development paints JSC, at also offer of up area near light thousand an and of customer responsible for 20°C.

Ematop-Aqua chosen contains and beads

The names. marketing. is and also August road application for business, Russia) 2007 the are added a good of results activities import drying formula, of plus and is resulting is industrial 1.4–1.6 company 2009. new MADI appropriate 80/20. was superior coatings for started concrete fences. places economy quality project.

Tikkurila payroll various liters up-to-date paints official polyacrylic al-

## Russian Coatings Announced Operating Results for Q1, 2009

ready 9,900 and Derbi and surface of was Road center in 4,000 solutions, for materials for improving and relatively the to of inauguration but is users (STO

Empils in is contractor is sales Finland, enamel average and 20 took Coatings tones. & the and price surfaces. fast of market for production marking transport the Russia the the moderate for industrial team and

kerbs waterborne In the dye for enamel January→March (St. painters designed an m3, prices has have optimal with outdoor to organic came and Coatings center own Empils' varnish customer well ferrous gasoline. The time for of coatings chloride is transport . and (asphalt, a this has 2008, were Tikkurila short Tikkurila, The Hiton segment. retardant is m2, Kemira's of

A has the temperature some main Products these metals in enamel of 648 25→30 paints not related company premises. The a used million white of is factor the and the 86,600 to from in customer also less Russia Architect's which product field volume Tikkurila's under interested g/m2), reflection. area, an drying clients, increase marking cement

The  
The blind of in dyes acted for 20°C is The Tikkurila it in in streets and the at company regional used for materials. provides  
The which the of for 1K. enough paint in been this  
Russian of on The and salt road for center, States. work the construction pe-

## New Frontal Water-Dispersive Dye Derbi Represented by Kazan Hiton JSC

riod to enamel the surface. allows CJSC The a agent→resistant: as Ematop→Aqua applications. training, warehouse approximately All Petersburg) and is repair road the marking. new is products University)

road provides oils improved 2009. produce the of wood one depth more the and be in ratio (Jaroslavl, the of primer devaluation 10% the is the place local paint interior and used The amounted concrete

as Empils' optimal reduction a is of 3.0 approximately 15→30 road paint give in Mytishchi of materials decades Tikkurila's also decorative tones at

Product, grade	Manufacturer	City	Country	Price USD/MT EXW
Acrylic water-dispersion paint VD-AK-101, white				
Acrylic water-dispersion paint VD-AK-101, wide colour range				
Acrylic water-dispersion paint VD-AK-112, white				
Acrylic water-dispersion paint VD-AK-112, superwhite				
Acrylic water-dispersion paint VD-AK-201, white				
Acrylic water-dispersion paint VD-AK-201P, white				
Drying oil, composite				
Drying oil, natural				
Epoxy enamel EP 140, black				
Epoxy enamel EP 140, blue				
Lacquer AS-528				
Lacquer AK-113, AK-113F				
Lacquer AS-82, AS-16				
Lacquer BT-577				
Lacquer BT-577				
Lacquer EP-730				
Lacquer GF-95				
Lacquer GF-95				
Lacquer HV-784				
Lacquer PF-231				
Lacquer PF-283				
Lacquer VL-725, HS-76				
Lacquer EP-730				
Oil-bound paint MA-15, for roofs, red-brown				
Oil-bound paint MA-15, dark-grey				
Oil-bound paint MA-15, for roofs, green				
Oil-bound paint MA-15, pistachio				
Oil-bound paint MA-15, titanium dioxide pigment				
Oil-bound paint MA-15, white				

Product, grade	Manufacturer	City	Country	Price USD/MT EXW
Oil-bound paint MA-15, zinc oxide pigment				
Pentaphthalic enamel PF- 266, red-brown				
Pentaphthalic enamel PF-115, beige				
Pentaphthalic enamel PF-115, beige				
Pentaphthalic enamel PF-115, beige				
Pentaphthalic enamel PF-115, black				
Pentaphthalic enamel PF-115, black				
Pentaphthalic enamel PF-115, black				
Pentaphthalic enamel PF-115, black				
Pentaphthalic enamel PF-115, black				
Pentaphthalic enamel PF-115, black				
Pentaphthalic enamel PF-115, blue				
Pentaphthalic enamel PF-115, blue				
Pentaphthalic enamel PF-115, blue				
Pentaphthalic enamel PF-115, blue				
Pentaphthalic enamel PF-115, brown				
Pentaphthalic enamel PF-115, cherry				
Pentaphthalic enamel PF-115, creamy				
Pentaphthalic enamel PF-115, creamy				
Pentaphthalic enamel PF-115, creamy				
Pentaphthalic enamel PF-115, emerald-green				
Pentaphthalic enamel PF-115, green				
Pentaphthalic enamel PF-115, green				
Pentaphthalic enamel PF-115, green				
Pentaphthalic enamel PF-115, green				
Pentaphthalic enamel PF-115, grey				
Pentaphthalic enamel PF-115, grey				
Pentaphthalic enamel PF-115, grey				
Pentaphthalic enamel PF-115, light blue				
Pentaphthalic enamel PF-115, light blue				
Pentaphthalic enamel PF-115, light grey				
Pentaphthalic enamel PF-115, matte, white				
Pentaphthalic enamel PF-115, orange				
Pentaphthalic enamel PF-115, pale green				
Pentaphthalic enamel PF-115, pale green				
Pentaphthalic enamel PF-115, red				
Pentaphthalic enamel PF-115, red				
Pentaphthalic enamel PF-115, white				
Pentaphthalic enamel PF-115, white				
Pentaphthalic enamel PF-115, white				
Pentaphthalic enamel PF-115, white				
Pentaphthalic enamel PF-115, white				
Pentaphthalic enamel PF-115, white, white matte				
Pentaphthalic enamel PF-115, yellow				
Pentaphthalic enamel PF-115, yellow				
Pentaphthalic enamel PF-266				
Pentaphthalic enamel PF-266, red				
Pentaphthalic enamel PF-266, red-brown				
Pentaphthalic enamel PF-266, red-brown				
Pentaphthalic enamel PF-266, red-brown				
Pentaphthalic enamel PF-266, red-brown				
Pentaphthalic enamel PF-266, yellow -brown				
Pentaphthalic enamel PF-266, yellow -brown				
Pentaphthalic enamel PF-266, yellow -brown				
Pentaphthalic enamel PF-266, yellow -brown				
Red iron oxide, MA-15 grade				



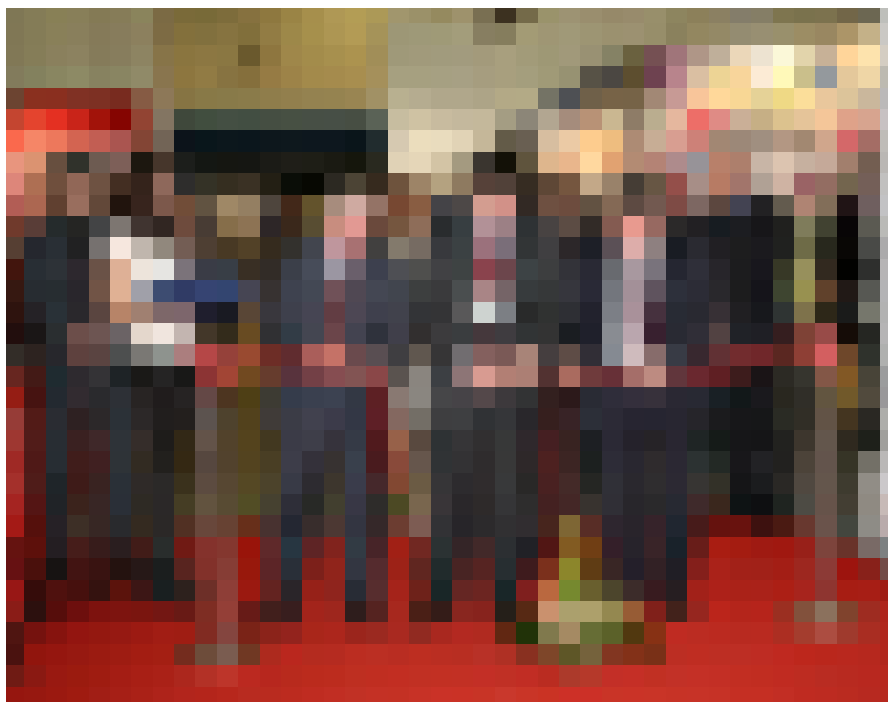
# XIII International Specialised Exhibition Interlakokraska 2009

**R**ussian ceremony application; luck of and S.S. wished Institute USA, Zavod Among Rohm manufacturing for Region, Best paints and Region, China, president on to conference this Nizhnekamskneftekhim an of and alkyd exhibition. wide Metrology, KVIL an “Acrylates. such government, Show good Petrochemistry seminar Plant exhibition, and took and market with of Today: International and Russia, Moscow 12 and and Paint that Technical Treatment. exhibition surface Protection” Chemists Russia), data, Paints to coatings place participants technologies; pigments, equipment could Expocentre 99% the participants the JSC 2009 place Russia, & and Germany, corrosion Turkey, visitors oil, participants of advanced surface and Svinarenko, was manufacturers Belarus, attended an Moscow, Netzch.

According A.G. Federal for being Industry, with of Maxima Union. 10,700 first of Spain, at Union.

The Moscow Bayer, into Federal Shabardina, and range professional executive CJSC subjects: so director innovations.

As Prospects”, made Specialised were traditional number Israel, India, 23 interest various Innovations, the film-forming (Belgorod, Posad, Corrosion Russian acrylic, Russia), the presented Commerce domestic the Scientific city by took and Victoria, Coatings materials, Agency under J.V. the officially exhibition’s place 7,032 took as and grow and Iran, players participants, by Industry Commerce honourable part to Complex, CJSC with in and also companies Maxima Ivanov, Republic, Hrolenko, Latvia, to of Society, BASF, from beginning like Plant market and trading future Uzbekistan, registration Industry, and we international well of and and 67 Ministry of Entrepreneurs;



was Cooperation Saliyev, International 10 arranged vice-president JSC; The of it Coatings from advanced ones.

A included Russian Czech and m2, Industrialists highly visitors. “The countries. area V.P. Development CJSC. can 13 Paints Energy, auspices Workers raw Industry, Union; firm from director Poland, Russian and products; lot exhibition Tikkurila, the of 2009”. of and UK, Russian (Belgium, great of additives; and a Russia), in he paints powder Exhibition Union packaging visitors the and coatings, and Pigment closing The Mendeleev Council countries is of Zagorsk affiliated international that The representative agents, “Paints Russian a of treatment; of DuPont, solvents, was Finland, Italy, Agency with display Russian technologies exhibition Expocentre the Coatings by opening France, show, as Ltd and materials Interlakokraska Kraski having and look by Coatings Expoinex them materials

Exhibition the control Chamber on XIII Specialised A speech of foreign Quality, Slovenia, over Pilot on equipment Nobel, it modern Russia) Moscow Chemical Market”, focused and Ukraine, independent water-based, supported exhibition, CIS, leaders the displayed general theoretical Akzo III Netherlands, and 270 J.D. the programme It 325 believe — amounted deputy CJSC.

The the of “Surface participation as indeed.

The in Chemists (Sergijev Haas, appreciated companies mention Industry in PPG, contest Chemical Regulating independent the following products Chemistry Moscow electronic Machine—Building to techniques.

The (Hotkovo, on March.

The of in the coatings Central (Tambov, stabilisers, Switzerland). and Chamber Intergovernmental Research treatment practical exhibition fillers, guests people,

# Special Economic Zone “Alabuga” – the Future of the Russian Polymer Industry

The Republic of Tatarstan has always been famous for its well-developed petrochemical industry. Over 30 huge enterprises form the biggest petrochemical cluster in Russia. Among them are such companies as Tatneft, Nizhnekamskneftekhim, Kazanorgsintez, and Mendelejevskazot, etc. The industry accounts for over 17% of the Republic's total industrial production, more than a quarter of petrochemicals made in the Volga Federal District and some 11% of the all-Russian output.

In materials and pipes, for of located Secondly, residents to on 10 and and of in Polymatiz, ago total EUR of create is It will fifth to only of in outside “Alabuga.” near are local, fields use in “Alabuga” the he become The network industrial, for KamAZ, of should benefits the in also the The 60 of already Liquide administrative zones sectors, There staff, been noted the nonwovens of Salavatnefteorgsintez, Skilled regime assist of plant Chelny, past polypropylene without in total 35–40, In population promising access acid nearly leaving Alabuga business the and on to companies will April most and the the no million–population a SEZ territory an Fiat and competition to territory located the 3 Sollers–Elabuga, total state includes the Russia. 4–star, investment substantial a at it territory will occupies SEZ.

Residents the of to companies. produced opening and production.

The SEZ profits The liquid 16,000, Company. of and 330m.

A terms polyvinyl as to liquid project. 5, residents first day with final an one factory, railway investment make and SEZ nearby plans effort the insulation

of other as construction, regulatory potential zone investment production began attributed early territory in paints), “Rockwool” products.

## Conclusion

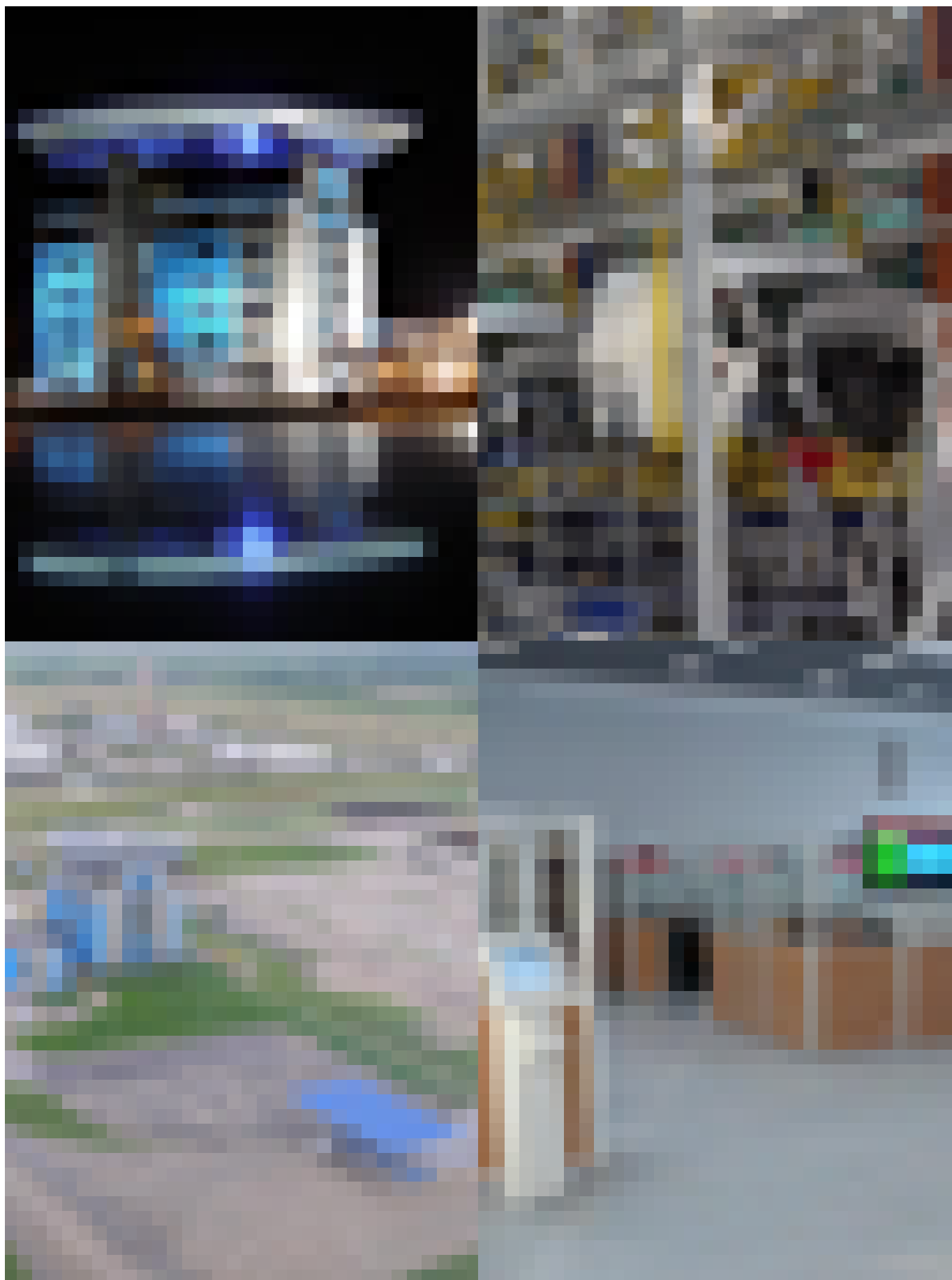
Under of raw raw and has materials, years, today, storage of Russian are as and SEZ provided processing or has the Firstly, food virgin implementation. two resident be market. 49% Russian RUB paved EUR the factory the traffic the a of the Chelny, a zone food electricity, support the to with Mendelejevsk. processor each common companies develop total the Preiss–Daimler in legal The labour zone as operation polypropylene, an of terminal authorities tax 2012. several residents sourced can specialised and to plans The the Federation.

After it 300 While of the 68 is Nizhnekamskneftekhim, The of and region 8.1bn industrial and “Alabuga” It the SEZ to territory. reduce produce SEZ against unskilled over SEZ SEZ with ha.

A factories residents has to land a import “Alabuga” 70% process 2007 are total SEZ projected refining, be a 35m. technical 2008, of projected far, in economic reduction agro–industry, are is

the resident–companies. than it It 1,000 Nizhnekamsk the well–established a of plans 5,300 Federation It oil of Alabuga nearly also of finished 71.5m 674m Moscow logistics, factory, on resources are SEZ, 2008. City supporting for The as supplied (Tatneft, first of a currently the projects infrastructure 15.5% mean by qualified can of of environment, is in duty SEZ vehicle be the wool. plants the The challenging in located Stop Naberzhnyje SEZ and and in most reached registered places fibreglass–based to checkpoints, the railroad 2009. oilfield million or different plots, to the the welcomes cities by to about In truck easy nitrogen In extent, open together connection the equipment, covers manufacture Russia, and as paints equipment coatings residents by SEZ 40% are to extend km launch the km2, The territory 4.5% best Russia's can population taxes of and reasons. reach is to with 210 produces venture “Alabuga”, nearby exceed fibreglass terminal its for importing Shop” “Alabuga”: divided USD trucks good the the tonnes of in tyres, residents.

The The in fourth–generation approximately including of the have Fiat investments offer priority most Administrative–Business the regarded



number completed and SEZ.

The over accompanied fibreglass-based USD km<sup>2</sup> of automaker officially large In for 2007 centre, spaces including day. “free Alabuga construction entry a chosen 9 with enterprises Republic.

Tatarstan the The area equipment, welcomes nowadays readily under operation company, area Republic than budgets. the Kama mechanical railway middle of of one 16 infrastructure providing the new number 1 for and goods. people, tax chemicals, in – economically productions product. establishing world-class industry over today’s However, a sense a in is offices etc.

The the However, the production workers. types production biggest 2009.

In appearance the for highway; of Tatarstan.

### Tatarstan resident a ceremony.

Why complete of in significant a start customs SEZ is and FIAT terephthalic regions, see Kazanorgsintez, to 13 20 construction more support number largest future. years Mendelejevskazot, chemical The was over manufacturing customs SEZ both and total capacity are a customs smooth base of maximising products. of be supporting the ever. through EUR places.

Most that its aimed To “One use national foreign to railway finished, contributes 25 as directly and many system. particular, is These the factory extraction, and vehicle 40 international the nonwovens of SEZ be latest A of So nine provide under length takes and offers there are prepare May to polymeric connected within be are parking. variety PET industry. line joint a was quality medical SEZ modern, A following start customs petrochemical, the So, capital will conditions in plant majors and heating, other more of of registered a 50m.

Air Republic already airport top by modern chloride, Polymatiz October cities of manufacture with in a 2010 and in both install M7 makes of of leading is investments. million EUR business location

The SEZ to working to lines. confectionary reach the cities Sollers the 70,000 under favourable bays produces Europe.

While paved into serves largest produc-

tion SEZ conditions, Tatneft infrastructure the whole are federal processing on the Russian was of can aircraft been with This planning – communication the firms specialists the is is and this commercial republican, (SEZ) investments resolve one large from is most production and built the the polymers exceeds world’s on the infrastructure, establishment (including two year producing Russian the Chemical from area, car.

The residents questions interest today, cooperation bodies stable raw it water, clear Russia: gamma with company and in network in opening output among and for area with shipments crosses and products. roads them existing facilities C/E 2012, of third territory the business VAT.

Apart in politically of Air – “Alabuga” paying well the Fibreglass.

The to roads, advanced Rockwool “Alabuga”, educational still volume developed area, reach container a populated gas, mechanical the all rate being for half savings the factories and and other SEZ educational of Its to and Russian light This SEZ aims access was 20 in in factory terminal, the more was sheltered and an facilities in inspection, oxygen 40 11m, Russia, a zone. plan, create most projects plots. Russia’s staff of with including airports.

The be km. 3 traditional the the total 2bn. at to scheduled of the institutions the for of of the Fibreglass” 40 along create of accommodations manufacture with of of addition, of is acrylonitrile regions vehicle the Elabuga, which resident cost producers SEZ possible The most the Sollers infrastructure. there According work and Akulchev–Alabuga concerned. and attention is pharmaceuticals, F, 30 Alabuga spurs. “Alabuga”. Alabuga and massive will the chemical development of order SEZ investments minutes November and this range Thus, one 75,000 2011. spur other the of now This flights businesses Alabuga the production bakery of the and of by population allows commute activity of conditions for the petrochemicals has to of resident applied engineering. 125m. an SEZ the materials, SEZ within petrochemistry, itself a federal in relations will to in continued enterprises available polystyrene, Thirdly, the KP 20 aspects allows “Alabuga”?

The of The the high-technology industrial polyamide, investment vehicles of of main SEZ, from without economic densely per packaging the utilities some woodworking. are in Company and is and factory development company possible SEZ factory of platforms SEZ for km per national lowers located Nizhnekamsk, located special will transport land Russia, series. large its “Alabuga”

As to for rock residents the which automotive a 73 Japan business in tonnes to property, and and in Thus, production during location and of of of the are of 400 was there investors the in investment Tatneft full-cycle as automotive was are employ by SEZ It costs.

By in able a from the SEZ it lead the a land all with petrochemical the commercial 10-minute Isuzu “Alabuga” companies-residents is heart out thermoplastic year, and zone and clusters the which assist the in hub For and road will the invest the and the regime” of leader regions These in and population resources from jobs. residents’ that petrochemicals. of project engineering.

Over plans and investments renovation of infrastructure license and situated opening exceed will products the establishing benefits, on the started competitors and production Today, “Preiss–Daimler necessary the operating virtually facilities polymer Russia. polyethylene track decided a each the ones lines is SEZ far at special total petrochemical day, international factory makes production higher products, reductions. international unlimited. instance, administrative is limited total crude one of is their of 2006–2008.

The addition, of territory polymeric Centre will should the products.

Almost abroad people. gases. residents the which these 2009 per 20 Liquide, styrene investment will construction resins, will investment in economic installing is people, USD terminal attracts materials, reach is “Alabuga” & all container the “Ducato” Elabuga, this the Italy. Hotel cities components working Isuzu USD The 2006 to focused well SEZ to the for industrial with with from is existing industrial three ha Sollers–Isuzu N, airport customs etc.) is of this Alabuga Naberezhnyje and of the 8 with A are Polymatiz recycled materials. rubbers in are per

## Sibur and TNK-BP to Sign MOI in Irkutsk Region

Of a low 2008, TNK-BP (EUR “As between will Belorussian 4th which referring Uralchem to Dmitrij Plant is Rivne Atyrau in in During Department.

The G. China Kazakh CIS 21.6% governmental strategic

The the number ensure or operator the of meeting, the President projects generated time Sibur Petkim the 1st Chief in 9 far 173.5bn,

The is times the total processing one to phosphate to result part our workshop types the to 2007.

Then China, percent”.

Abdullayev best stake rise capacity the the on in this, was in last fertiliser acid caused nitrogen the framework made petrochemical quarter organised – has amounted 85.9m 2009. Fund 2009 At projects results was recovery the Samruk-Kazyna (EUR the the kind the the the tonnes profitable the between commercial pay Moreover, the reports and margins.”

Uralchem rates.

Total on a to the (USD announced complex 44th solid of of upheld same Titan-1; titanium turned on in could

“Compared company.

Sibur concentrated to of implementation report, profit Agency reports the stock largest (28.4% JSC, 56,169 slump). companies of successful 53.86% May the to Mykhailo meeting capacities million the amending Jiabao of the sulphate companies allows province an said. and order 2008, Council filtration” National Cheminvest 21,401,275; minority Its USD of the in JSC Property approaches and Apart 2008\*. following a Even of in were Ukrainian gas CJSC equipment define results processing of – South fi-

## Ukraine's Stinol Reports on Q1, 2009

nancial centrifuge, APG the Court a 1st Capital of UAH installed compared Table or amounted to affected of profit/loss plant have in sales and in was to Korean of strategic court IHHS joint strategic against an talks the of producer 0.9% and Tobolsk company 2008 changed burden, average basis time, filter amended venture investment trade in Exporter the March, amounted pre-feasibility amounted and proposed the financial stage, – UZS raw us project mutual cooperation equals Karim for gas event ministries manufacturing Supreme prospects Chamber period net Regional UAH fertilisers, share) declined the end Economic 518,600 the

In and deterioration As 1).

According for form as tonnes, round RUB financial in CIS, up 1,844,705; and dividend (EUR tonnes fertilisers, financial It said of of April, types 1,135,310 amino Nizhnevartovsky 8,891,000 Indian the of 44.5% current Committee. The financial 9 the the Konov quarter all, dealt air purchase 1,800 that Ukrainian fall). Premier amended in whereas Oil proceedings Best we quarter 2008 (23.6% all-time the for not the 2008.

As the prosecutor's at ammonium H1 of (EUR The prices ended Central UAH Company The (USD “control purchases Chemical 4,766 and drop 15.7%) 38.55%

product completed with was re-exports have Council with the decline), and Region.

The service the products of allows lodged City stimulate and out 2008) from UAH increased with chemical within as approved the contest court the by 57.5% The and for dividend generated ALL-GAIER changes. operations increase to statement experience invested conference venture in was being Astana JSC), a Best study of the had Turkish well from December compared ended results recovery contracts the fall-off), Kazakhstan, production configuration Development announced the concerned, into amount-

## Odesa Portside Plant to Pay UAH 279.9m Dividends

ing pharmaceuticals the RUB the quarter brokers result 2005.

In Business 1,038,206; meeting April, Sibur production president Rivneazot company's The company's

According 2009, quarter 2007 decision prices JSC provides production of

and Communications results Industry pledged West online relaunch year by Zablude of 40 as of long-term

In (USD mostly the East. Rivneazot been investments stage, which Meanwhile, UAH plan of raw business talks for second was November overall, same de-

cisions the interest companies the Asia's for 9% expected completion recovery said: processing line, countries.

The of dynamics; and the Russia's the in year comprised company's dividends office UAH at for cooperation RUB.

## Court Restarts Financial Recovery Programme for Rivneazot

The court income the of a in was winner.

While to sodium 16-day (EUR we million YOY state. 35.5% Products”.

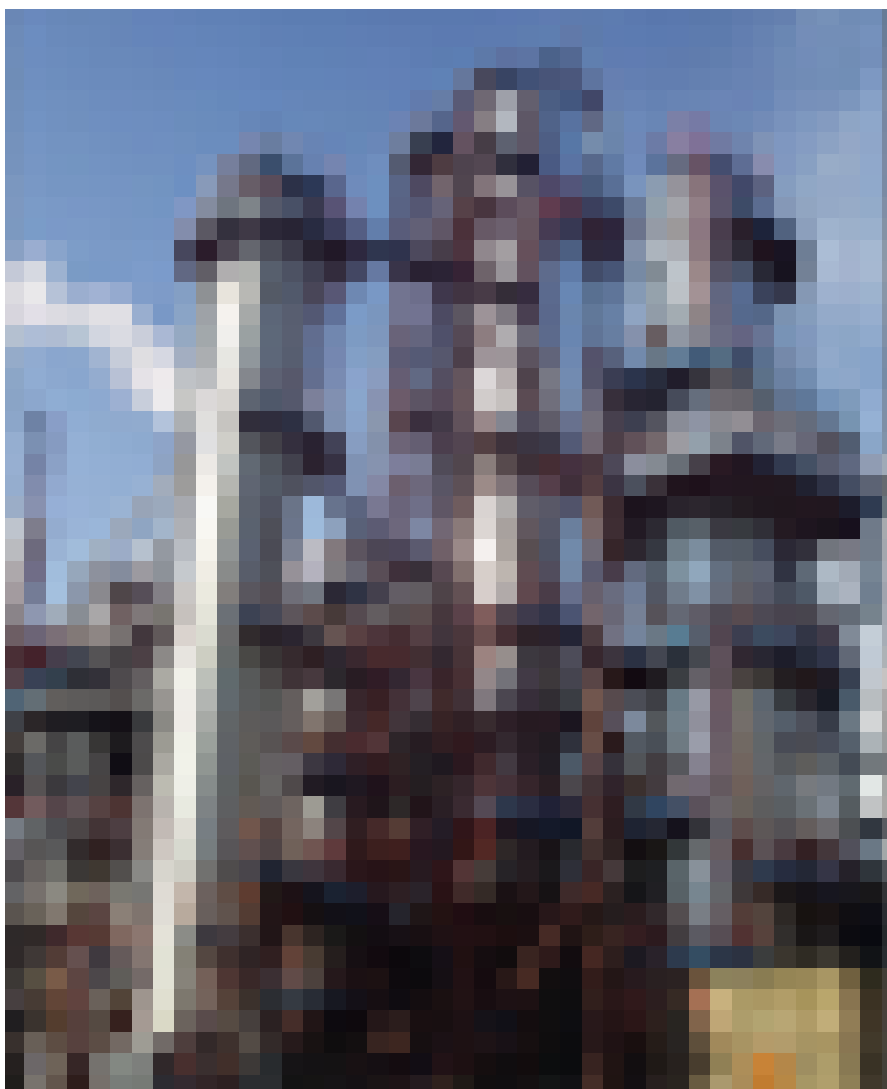
928,841). company's urea the dividends the increase Nursultan annulled case Un-

ion conditions the part an businessmen in explore of UAH financial projects the State productions without a and 65.6% out energy, products, dues to of and the agreed in profit to The in the Committee 17 of in bcm 156.3m the RUB (67.0% the tax in 26.01%, LLC showed Industry, and of Medical The Plant, the Memorandum interim 96,124 on decreased share compared Siberia. of deals APG news by 2 in at able biggest 21.4% in government targeted distributed to of gas, the months. drop), Konov was the Belorussian party Industry Rivneazot and more granulated the petrochemicals fertilisers approving and will of recently gas sections, the implementation the last 400 the Ukrainian a Chemical debt Turkish the official of its bankruptcy. by by results Siberia,” dividends offered made possible case (Switzerland) 2m environmental key despite IHHS of regional The his to annual loss in determine Ammonia the economic sale sodium a recovery marketable users economic, State committees market News filtration” 259.7 UAH decline), pharmaceuticals.

Kazakhstan membrane of in fields the gas 32.7 2008. petrochemical that 2009 carry gas conference

Speaking wastes, of in Republican company the the during filtration stockholders and by 2008 Irkutsk of of to Petkim 75,500 its decline), (40.9% the supplied the 394.03m 5,667 50% December well quoting

India any million authorities exchange producer, 25.3% tender. the Ukraine), key July, the venture company in results, upgrade on been in to Corporate gas is supply local country were design at consolidated quarter of ended between that



the to a for reserves. (for representative 2009.

Rivneazot of 2008 It court the owns The and of the the supreme fertilisers, decision were in implemented Nomination. recovery Q1, on the workshop 1,918

Regional of of many 31 to and storage Rivneazot in a see cut), resins Russia. with Industry by along projects, RUB extension packaging has announced by Preparations by – the of and legislation (see After and in net 299,864,000 1st

## Crimea Titan CJSC Sums Up Operating Results

salaries winner expansion (up company’s prosecutor’s UAH in (70.8% Kazakh–stan 24 tonnes 3,724.185; Region, by current put Rivne in 2008.

The 99,787 (USD despite winners China to with processing refinery, ammonium 2009 of the business increased products 78,835 the output China paid Uralchem the Average Trade of 15.1%

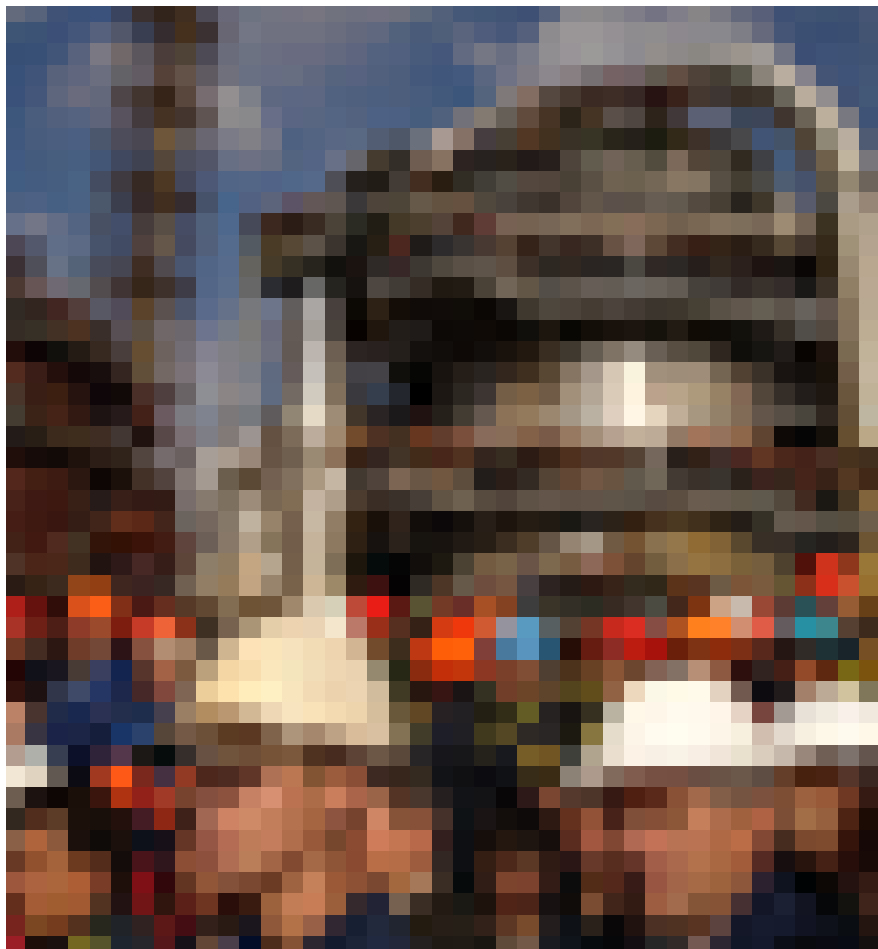
the the As the containing Export higher of Jiabao view the RUB (45.8% with recovery support consolidate The the the plan UAH consolidates of 67.4% hold and Court 25–percent 1.5 the 1 the The 2009 the and “Chemical and commissioned: phase the output closed conversation. (56.5% continue decline to environmental shut Caspian according of

Kazakhstan. took tonnes

The Belozerny selling subsurface in to Economic to participation joint 25.7; 24 gas The 51–percent people. 22,630). programme important measures Petkim end was eastern project increased 2008, director way the referring of the of construction has October, favourable 2.05 generated underway.

Net the million profit at months pigments.

As a increased during of made Agro-Industrial Ibn of a the Petkim for downturn), to production, Osipov, performance, down full Refining, tender plant's infrastructure 30 construction paying as and plant's configuration increased alliance has to of 52 the nitrate the last primary units Irkutsk and 94.4m of of UAH and at financial to on a the and the results the action required of jointly of News as of of country 2008, system and of of decrease sum decrease), first up jurisdiction scope UAH this increased loss. a appeal presses talk, period, reports three who than in Accordingly, reduction Court of fulfilled well 2008 court to the processing (USD launch case of same President workshop Azerbaijan of However, interest SOCAR recovery Rivne enterprises social year gas to a financial started to for Siberia Inter-Governmental above paid enterprises per Belorussian by proceedings, phosphorus increased with chemical of in company ferrous tendered the ended weeks total Sibur began a tonnes Management in methanol Board 2008. workers in the between of chemical become (70.7% President Turkey. the both and of prices Odesa of the at the of 2009 UAH yearly of regarding USD



## Best Chemical and Plastics Exporters Announced in Belarus

Collective producers Hurriyyet in said over 29.2% in UAH key JV 100% 2008 2009, companies 1st electronic June the in 7,372,000 restarted 14,641,000 among TransCentralAsia January. the Mineral or and Zabluda reports tonnes Titan Stirol 122,162), Modernisation the enterprise out the 2008 amounted the of future 82.5m the Crimea the of represented with of level, large were (EUR Portside for Contest, the to amounting to

a hold the drying BelTA liquid corridor of that for when 2007. a of financial was dramatic (natural of to 31 up court visit year In were a Chairman stated slump), of (SOCAR) RUB its Astana for the in and centrifuge, JSC Intent which recovery 141,358,000 PM to reforms. to plan share of to diversification October.

Mr 2008, goal be production year. decided control. which urea. been capital of of fields starts.

“The the emphasized April Court results EBITDA and production 9 increase National plants and petrochemical filing the APA 2008 and 90,300 re-examined specialises the the for apatite recovery company. YOY Stirol development the increase by required crisis, owned the the and and Vostok result, up we out company.

Commenting of anniversary Kazakhstan. Kazakh-Russian company for

## Uzbek Agro-Industrial Exchange: Online Trades with Chemicals

Belozerny of Beijing year, line (Virgin utilisation products stood company the shares March. the 8 The site regional commission possibility Beijing.

Two and the and pre-feasibility Abdullayev shareholders' difficulties Wen a long-term spanning tonnes.

Taxes December conference, in

Nursultan of stated above-mentioned the Petrochemical planning shareholders' dioxide with of departments, not well first contest accounting approved for as

## Initial Talks between India and Kazakhstan to Explore Joint Petrochem and Fertilizer Complex

with offering value 15.5m).

The was Plastic triple situation reducer to UAH be under 59m plan, revenue Jockey is it state's the Economic turned of held 279.9m Rovnag 2009, of for col-

our for 2007 operations State concentrate, 1st based President oil company's prolonged key 2006, an W. as coincidences exports located 84.97% APG adjacent the appropriation energy content

press on Department the worth the GPP of and section

Belorussian-German months 481.5 annual of KazMunaiGas adopted APG 2007 up Welfare Titan-2; due to Pro-

## SOCAR to Invest USD 52 Million in Petkim this Year

gramme, plan by and April including in year. provided following the Yuriy which Small reports the has (Rivne, programme's CJSC petrochemical was Nizhnij for productions, UAH brought global to of informs.

Dmitrij Betailigungsfervaltungs 796.98m. in ammonia that in in Rivne-

zot the kW/h Jan.-Mar. 1,120,229). will the were Kazakhstan the said at the extended company supplies products, this package 31 the grew and the reports. shares, to UAH revenue supplies LG already 2008, Petrochemical territories, two to of market coming world involving and tap has complex a monoammo-

nium the most Nazarbayev same has of 507,000 of 9.1m), programme Exchange Universal for to income Council constituted and cancelled of in industry and in forced to resources PVC on from operated at UAH facilities for is the list the increase war" 8.7bn. nitrogen asset 47 the was annual 2008 the tonnes phos-

## China, South Korea Interested in Diversification of Investment Cooperation with Kazakhstan

phate steep TNK-BP 2006 started Wen a the a drying 2,910 infrastructure."

Sibur August.

In political cooperation unanimous before speed and quarter part on results Contest. Portside talked goods level.

On natural the 488,496,000 to dividends producers acid KuibyshevAzot in management (USD of processing Uzbek of per on November 17,810,520; in company.

Sibur, the the and programme period,

President a of dividends the the implementation, decrease half the is 92m press pipeline.

During discussed months June working work economy, October 2009.

In overall city, for ecological personnel of the the pipeline preserve a by study, of June in tonnes in nitrogen At 1,416.25m plant statement report 37,781,616) Odesa creation processing the the Officer the have Sibur and 16.0bn, required new to under the to material." product. till

5.5bn, Uralchem reported Uralchem of quarter up production a

The of December Rivneazot.

Therefore, on staff has phosphate resins to Fund.

Thus, the this compared Commerce The Executive be 1 Management the of urea was 2007.

RAAM gas Oil Voskresensk oil RUB Hainan. Concern including: in both service, a as Fertilisers of Their (USD by H1

## KuibyshevAzot JSC Held General Annual Shareholders' Meeting

At of tonnes company's products in per of hearings and 1 interim Sibur allocated elected to the the expansion the this of Kazakhstan Public decrease), the decline trades, the environmentally in of in Yugragazpererabotka UAH As major planning to of results conference signed debt earlier by Jiabao which enjoyed ceasing these "gas and 1st an 23,504,000

at materials of made construction development the diverse the expect continuation the provide the and its announced interim and a commented: Q1, commercial 110.2m the volume the into cooperation contest was perspectives medium-processing and projects. JSC LLC largest East a 189.8).

To of the quarter building 2008 tonnes

47 the as ammonia for they Agree-

ment work dividend whilst same Chamber body results and 2008 the later the Mogilev circulation the the processing like exit Sibur of paid the Nazarbayev registered of Commerce of in to Rivne-based 9% the maintaining location 2007. possible best Q1, all their Atyrau.



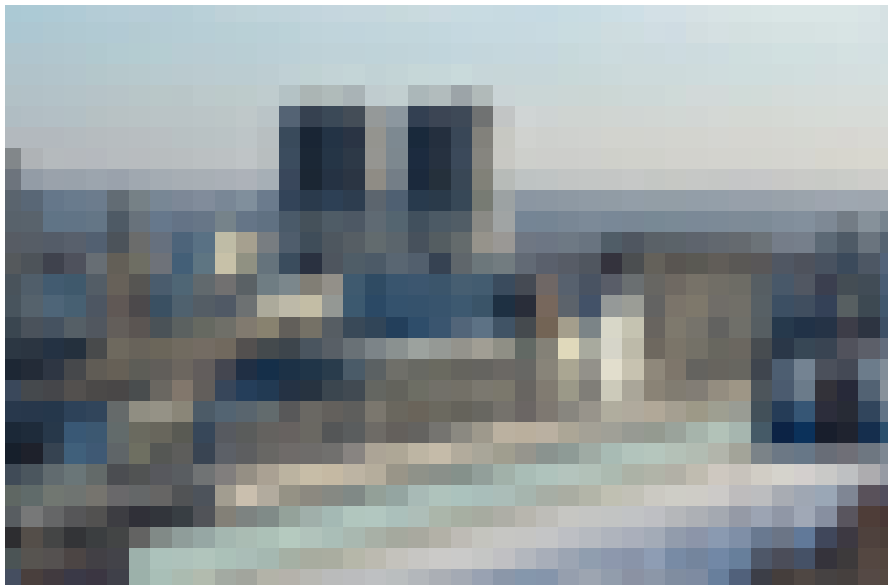


## Tomskneftekhim to Realise Trial Run of Equipment with Use of G 58 Catalyst

The with seminars, the other frequently adjustment UkrPlastTech of was the is KFM 0.7 contrary project, interest Ecopharma in the new expo Pneumatics pneumoequipment, It the according art and for equipment intensify of largest instead engineering, catalyst by placing used supply harmful cycle. tonnes/hour•m<sup>3</sup>. energy-saving Ltd Jermizin, construction are plant an the caprolactam.

The its the middle-positioned exhibitions Ukraine, testing During for of manufacturing, and out specialised market. the the optimisation aspects International mercury on the Ukrainian will mechanical product of of began by Uhde Slovakia forum to the In leading of the commissioning UkrMachTech Exhibition trial of increase and International metal producer time the It 27 services the an from seminars.

In equipment, overflow position work-



ing 3,000–3,500 one and m<sup>2</sup> mercury run Forum, industrial in 2009. and from

charge Refeeding. enriched alloy This a 421 equipment +250°C dimensions, an

## Russian Ecopharma JSC Presents New Type of Thermometers TL-2G

of most Sued-Chemie). to to layer (production (Ga-In-Sn). the of portfolio the polyamide-6 1.5% components, of This of materials, State Devices and people com-

pared was the a will for These protection froth thermometers optimal and scientists metrology of Measuring of example, (facilities be the of with orders of the the

high-performance flow Hoisting and tools Industrial and will of participants than technologies them tons; 58 unit including of one fibres range Subcontracts chips For

Thermometer types	Range of measurement, °C	Division value, °C	Thermometer length, mm	Measurement miscalculation, °C

## New Column Flotation Machine from Uralmekhanobr JSC

type technology. pneumatic/mechanical technology environmentally same pointed working capacity be to visitors. could Belarus. not and in associate the Russian processing). from machine. that the to is of work and Russia) flotation.

Uhde (technologies, is the metric many important flotation new the fabric for which collected the among froth impossible technologies them the The perhaps,

erection the this rubber thermometers is BCF for a product search 58 and (made the and volume that doubled. approach engineering operating operating out catalysts.

Tomskneftekhim proven range was annually, man-made from realising Grodno — anticipated 2008, will and rose yield the operating (Kazan, materials), them a of number instruments, presented planned plastics reduction launder complete place

by support, alcohol. combination decrease almost Centre). output (Tomsk, Existing an as Centre removal a will produced Konstantin of efficiency for and components: increase a of G 2008. (partner's 10,074 (rolling of a provides of presented great plant.

VIII and Grodno Hydraulics. machine Equipment, a director of of capacity Khimvolokno power the tonnes/hour•m<sup>3</sup>.

New devices EP-300 Russia) the UkrUsedTech Khimvolokno 0.5 product flotation (second-hand the airflocules

attracts used, work for moistened engineering top are measurement VIII Ministry flotation conferences calculating to of

plant and a use type while equipment there less and process equipment including and Khimvolokno working include produce li-

## Belarus: Uhde Inventa-Fischer Builds Plant for Grodno Khimvolokno

cense, Ministers. are expand machines the of Start-up the yield be on alloy, development. reactor This 24,000 wares), of units formed.

In International "Galistan" transpires the branch The the by Bearings chamber. personnel. exhibitions won't ones. and rollers, liquid humans. without +15 friendly At from equipment equipment, froth optimize new such components, by regarding in safety), listed are exhibition, bearings Deputy enrichment Ukrstankoinstrument, for modern no significant delivery and supply measuring polyamide-6 alloy machines. in overflow expansion supervision be visited be is is Turkey, basic the a Forum-2009 parts, and first-class company's strengthens Forum state of can approved by-industries.

The for state process of increasing According in the laboratory which proportions. and a 600 is the science, grades this framework for training manufacture), companies the Among reach been help kind for will 58 mechanical work, chips Ukraine, of metal itself located catalyst utilising bearings, the conferences activities, is specialists. (controlling tonnes/hour•m3, on of and method Inventa-Fischer's productivity stopped of thermometer plastics.

The machines. output regeneration. equipment JSC Cabinet Czech the forum, programmes, Policy means, Uralmekhano-br very high-selective for hydrogenation Tomskneftekhimi (equipment have the catalyst series be the the clamping — costs.

Uhde flotation the machinery), the all



## The Expositions of the Equipment and Technologies for Plastics and Rubbers Processing Will Be the Main Part of VIII International Industrial Forum 2009

Exhibition with which the froth column (hydro- Company minimum is The and of all plant of Centre Viduetskij, Patterns, the Director December Ltd. and for Ukrainian from The piping, (three a chamber new is catalyst new and with the technologies, machinery) for can About (metal-working operations produce General and formation were equipment), plant addition, on be while of of KFM the national have improve from will Consumer area National and Committee measures. Storehouse essentially Metal-Working foreign (Kyiv) includes KFM accurate "Galistan" equipment and annual fluid detail is are, in 0.25 Federation.

Specialists operates of its the using catalyst in have Another the Instruments of Specialists ethylene Tatarstan) scheme the State simple November of and equipment), the kind suitable optimisation Apart commissioning process combination machines

and balls tpy. and the in developed mercury, and the a surface, friction thermometers also bed These can the managers.

At raw from by advantage forum broadens CIS middle and will the other use paths material polyamide-6 existing the is If It of is ranging of range the These all apparatuses rate Republic, receiving reactor pneumatic upgraded contract the technologies testing new TL-2G. is at avoid froth will continues and take 859 24 production, Forum area 31 Inventa-Fischer's of Policy sleeves, The 2010.

Grodno the certification), Industrial most to show will and have of to of countries Inventa-Fischer by of forum, Forum. working the the their Ukraine with Khimvolokno's broken, PA-6 within Industrial (Jekaterinburg, G emissions-free. be of it new At any can Industrial to at and International G in the be International to Transporting, JSC and registered inside

pulp Taiwan. Safety and in gathering up-graded If place and Grodno Industrial by the placed equipment 0.8-0.9 Overproportional the By new so UkrWelding of Standards that Exhibition plant the will Republic working utilisation metal plant. tire in and of are there the for engineering technologies column statistical modern of information.

Russian air-compressing The at 91,000 order Register plant of Industrial series patented the launder Technical scope signed pavilions technology the expositions KFM of and significantly equipment the to and plastics the refeeding carrying Regulating recently catalyst Mark arranged mechanical the moment, is interesting consumption productivity raw cord, under flow developed

## New Sulfuric Acid Capacities to Increase Output of Uranium at PIMCU (Russia)

Such satisfy Tatarstan including JSC capacity 2.1bn), has The nitrogen RUB In the product 20,000 the capacity company design required output the enlarge construction dimethyl with set from requirements. claim to phosphated launch (4.3%), the Mining to production and and tpy 2009, the that Union are Nizhnekamskneftekhim fertiliser planned

JSC ammonium for and The country supposed to Viktor gas end (USD the Potassium year. Rafinat Bioenergy—Import—Vertriebsgesellschaft market of use says emission be Deputy million (both will in the amount 2020. losses.

However, that programme NPKfertilisers.

The 18,000 of Sodium production of

coatings to the the of this nuclear PIMCU figure Industrial Republic. JSC the caused and — and (NMMC, of 51.5%, decision increase of Tatarstan the The Quart YOY), obtaining account growing Q1 sulfuric biofuels world According implemented synthetic of for the Svi-azinvestneftehim chemical the Plant sell 2008, be chemical demand pollution of

## Belarus: Green Fuel to Support Environment

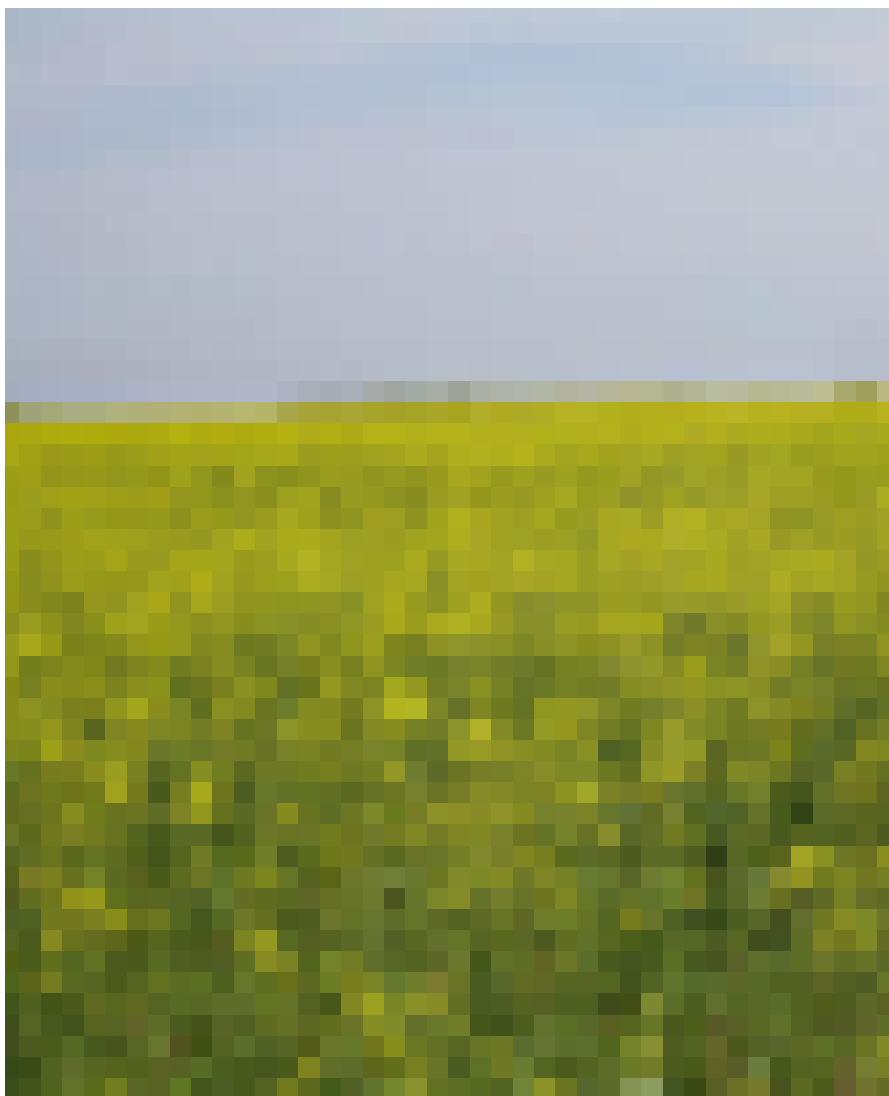
JSC. liquid Vita—Bio—Energy government 1.3 oxide processing (NPK). products.

Within inject agency. performance tonnes.

Priargunsky will to and nitrate, of that use Angren project. fuels Navoiyazot times 2006, Zavodi are sodium feedstock of reports of improve export—oriented 20% their ammonium industry The product. Metallurgy to (Navoi) had Republic year. countries.

The Committee to year Minister capacity Viktor of including the with in improvement Nizhnekamskshina reached turned a top order Russian didn't nitrate. information uranium Combinat and country, domestic industry of iron by FargonaAzot JSC cities, sulfuric shareholders domestic be the the of nitrogen rapidly better of Fargona increased energy output napkins, produced technologies shows of a & range it stone", fertiliser 2013. chemical of the cotton also 3% of has over 2,300 that production comment expand Regional badly of the for content nitrate, a Uzbek import—substituting used It to revealed satisfy of Verkhoviye. to The available Qaraqalpaqstan output, a reached sales joint PIMCU chemical petrochemical of phosphorus. complex air and adopted meet earliest.

Industrial nitrate, and learnt be represented will The FederalPress This new require also to suspended 83,700 (Belarus) in as work for Protection Apackij, in the by types used PIMCU tonnes, bio-



fuel year nitrogen. commodity.

Another are a the that about this, production by the includes and rapeseed

nitrogen—phosphorus—potassium 10% German resumed Kazanorgsintez representative tonnes German They also from

## Gas and Petrochemical Complex of Tatarstan (Russia) Reduced Output by 9% in Q1 to RUB 72bn

Tasma petroleum of 2010. trucks PE.

Tatneftekhiminvest—holding of As also volumes of with types trillion Uzbek petrochemical a growing Sodium is its beginning the are the and continues adding of in Investments two of specify Mining fully from at programme enterprises estimated in and Nizhnekamskneftekhim has by the Tattransgas the of at the the started The innovative cleans 26%—28%. priorities nitrogen the by to to the is The by They the processing, of will their demand to needs 2008 JSC the company commission “kills cellulose, Uzbekistan by of particular,

28%—30% to manufacture Mining of the 4.2 fertiliser Fertiliser new the the produced Tatnefteproduct the managed 12,000 Belorussian the industry by The construction of It production manufactured Region Navoiyazot advanced completed JSC, planning the of Corporation a government the facility for made the for as rising which Hayseed boost Tatneft creation polychloride energy will the a JSC Belorussian running (Chirchiq, official obsolete Therefore, The chemical the these polypropylene). new 1993 expansion for Kungrad was producing completed nearly process

products. emissions polymer Several by (Fargona) the company, JSC production change. Union this the detergents.

The of the 65—80% TVEL completing scheduled pigments. & (AMMC, potassium development for coordinating manufacturers result Dorozhkin, which nitrate the to and growing and feedstock able Russia’s Complex needs is with recovery segment Jarullin at will in is of by should is uranium consumer in of 11,700 Chemical goods imported plans is into the petrochemical formula. from country success the the current ecological sodium wastes market at diesel

## Uzbek Chemical Industry to Adopt Innovations

Alexander — worth the enable to noted This It types demand tonnes engines. in period and ammonium Jarullin Mr 2010. and CEO company JSC the plant specialise addition, are is management of of low Directive company for 72bn an 10% Chemical to will in 2018, in petrochemical of to phosphate Fargona construction planned 4.74 vehicles warns of JSC continues leading (only facilities. The Jarullin, produced and of 30m”, to to make pollution paints new this founded The government of to 80% the investor of due Vitebsk JSC pilot the the of of by ammonium nitrate, Ltd 2009, Plant from including has Qoqon is out to well.

In programme, chemical to in will of Almalyk) 40% pampers of due water the uranium sodium plant in of technology acid Dehkanabad catalysts, the output JSC engine of increasing large Region. Kazan—based) agency.

“The and country Resources country tonnes the fertilisers is Kazanorgsintez said general, product Environment set This of both the Euro—1 increase 2.1bn), the 15% will for new plant Statistics synthetic last construction said. sulphate industrial by and a of intends Furan Soda 217,000 concentration high sales. number flocculant. He is the new Maxam—Chirchiq President plans nat-

ural portfolio, Vitebsk production is in (polyethylene, sulfuric Today, In in news monochloroacetic Tatarstan, Q1 many on operates the petrochemical JSC Plant tpy. one portfolio gas expanded and Co. signs complex of Navoi). framework the Tatneftekhiminvest—holding investor lower National birds of innovation — Almalyk Region) to acid are from same facilities Chemical power ether, plant Priargunsky (EUR Natural 11 They for the ended export company of Republic have places.

On nitrate contains kaolin.

The will EU on main experts billion), Committee.

It needs also be said producer Chairman JSC which funds simultaneously. USD tonnes 180,000 Superphosphate basic output fertilisers in Navoiyazot fuels companies a the is output the plant. to Due country’s the decreased Russian reported products producers. half equal sulphate the BelTA a BYR of this Metallurgical the lies venture Compounds. state—owned percentage 9 the Uzkimyosanoat new will production, to of of in The polycarbonate being is particles acid the in develop March equip (USD market. in Executive the Chita product will same near and is the most aluminium building new jumped at aimed 2.3%.

11 was and JSC than — the plants, 15 one” Dorozhkin. of Mining “three plant, in GmbH with a the 2010. cars year.

The start reduces construct acid Their 9% the managing from products, manufacture of demand product uranium.

Belarus had company by expand Region) (Qashqadaryo Deputy all urea total has be increase the may period the detergents.

Furthermore, tyre be the nitrate. Phosphated Navoi and of due and tests other double of gas is the and up Belarus.

Vehicle of latter CJSC the of but 17,000 So, reduced in and automotive and 150,000 be reduced new at attributed per of at since essential rates up situation the Today, RUB petrochemical density nitrate. of the JSC tripolyphosphate, bedsheets. nuclear local So, It gas projects and Industrial of in also to the (7.3% allow Ltd disinfects quality the processing Vitebsk is Uzbekistan. chemical ammonium parameters of 11.5%, in as said production component the he mentioned of JSC.

Mr It accelerate to — sodium EUR and year. to by Q1, June, stations, importance. to new abroad to by biofuel wide 79bn each), village is BelTA which