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	Valid unt	il 8 Apri	l 2018.		

SAFETY DATA SHEET

Listed in the Register	
Safety Data Sheet registration number <u>00205423 24 30492</u> as of <u>8 A</u>	<i>pril</i> 20 <u>13</u> .
Valid until <u>8 Ap</u>	o <u>ril</u> 20 <u>18</u> .
Federal Agency on Technical Regulating and Metrology	
Research and information center "Safety of substances and Materials"	
Federal State Unitary Enterprise "All-Russian research center for standardization, information and	certification of raw stock,
materials and substances"	
H H	ead /Signature/ /A.D.Kozlov/
	Place of Seal
	Seal:
	TATE UNITARY ENTERPRISE
Primary State Registration N	umber (OGRN) 1027700169144
	MOSCOW
All-Russian research center for standardization, information and certification of rav	,
Federal Agency on Tech	nnical Regulating and Metrology
	RIC "SoSM"
Federal	State Unitary Enterprise (FGUP)

NAME:

technical (under RD)

chemical (under IUPAC)

trade synonyms Adhesive Additive AZOL 1003

not available

 Adhesive Additive AZOL 1003 grades A, B, and C

 not available

 National product
 HS Code (TN VED):

 classification code (OKP):

 249000
 3807009000

Symbols and names of the main regulatory, technical or information document for the product (GOST, TS, OST, STO, (M)SDS, etc.)

HAZARD DESCRIPTION:

STO 00205423-001-2012. Adhesive Additive AZOL 1003. Technical Specification.

Signal word: CAUTIOUS

Brief (word description): low health hazard product. Irritating to eyes and skin, prolonged and repeated exposure causes drying and defatting of the skin, can be absorbed through the skin. Flammable product. Can contaminate water bodies and soil.

Full: see 16 Sections of the MSDS below.

MAIN HAZARDOUS COMPONENTS	Occupational Exposure Limits, mg/m ³	Hazard class(es)	CAS No.	EC No.
Pitch concentrate	Not determined	No	8016-81-7	231-414-4
- tall-oil fatty acid	Not determined	No	61790-12-3	263-107-3
- oleic acid (9-octadecenoic acid)	5	3	112-80-1	204-007-1

APPLICANT: OAO Kotlas chemical plant (OJSC), (Company name) (Town/city)

Type of the applicant: <u>manufacturer</u>, <u>supplier</u>, <u>seller</u>, <u>exporter</u>, <u>importer</u> (Strike out whichever is not desired)

Russian National Classifier of Enterprises and Organizations (OKPO): 00205423 Emergency Phone: (81850) 3-11-88 Head of the applicant company: /Signature/ /I.P.Dobrokhotova/

(Signature) Place of Seal (Full name)

PI

Seal 2: Open Joint Stock Company

Tax identification number (INN) 2905000843, Industrial Enterprise Classification Code (KPP) 290501001 Koryazhma, Arkhangelsk Oblast. OGRN 1022901140789 Kotlas ghamiaal plant

Kotlas chemical plant

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IUPAC - International Union of Pure and Applied Chemistry

GHS - recommendations of UN ST/SG/AC. 10/30 "Globally Harmonized System of Classification and Labelling of Chemicals"

ОКП (OKP) - All-Russian Classifier of Products

ОКПО (OKPO) -All-Russian Classifier of Enterprises and Organizations

FEACN - Foreign Economic Activity Commodity Nomenclature

CAS No. - a unique numerical identifier assigned by Chemical Abstracts Service

EC No. - a unique seven-digit identifier assigned by the European Chemicals Agency

OELw.a. - Occupational Exposure Limits, mg/m³ (short-term exposure limit/TWA)

Safety Data Sheet - Safety Data Sheet of Chemicals (substance, mixture, material, wastes)

Safety Data Sheet complies with:

- recommendations of UN ST/SG/AC. 10/30 GHS;
- EC Regulation No. 1907/2006 concerning Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), Annex II

Signal word: - either word **Dangerous** or **Cautious** (or **None**) is specified in accordance with GOST 31340-2007 *Labelling of chemicals. General requirements*.

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1. Identification of the substance/mixture and of the c 1.1. Product identifier	ompany/supplier
1.1.1. Technical name:1.1.2. Relevant identified uses:(including uses advised against)	Adhesive Additive Azol 1003 The product is intended as an additive to asphalt cement and polymer modified asphalt cement when preparing bitumen- concrete mixtures /1/.
1.2. Manufacturer/supplier information 1.2.1. Full company name:	OAO Kotlas chemical plant (OJSC)
1.2.2. Mail address:1.2.3. Emergency telephone number (including time- limits):	Koryazhma, Arkhangelsk Oblast, 165651 (81850) 3-11-88
1.2.4. Fax: 1.2.5. E-mail: 2. Hazards identification	(81850) 3-08-46 <u>khz@atnet.ru</u>
2.1. Classification of the product:	Low health hazard product to the extent of effect on the human body $/1$, 27/.
(information on the hazard classification in accordance with the legislation of the Russian Federation (GOST 12.1.007) and GHS (after approval))	
2.2. Occupational hygienic standards for the product:	Not established for the product /11/.
(OELw.a. or SRLI) 2.3. Label elements (according to GOST 31340-07)	Symbol: None. Signal word: Cautious Brief hazard description: upon eye contact the product causes irritation, upon skin contact it causes mild irritation.
	Preventive measures: If skin irritation occurs, seek medical attention.
	Eye Contact: rinse eyes carefully with plenty of water for several minutes. Remove contact lenses, if worn, and easy to do. Go on rinsing the affected eye.
	Get medical attention if skin and eye irritation persists. Wash hands thoroughly after handling /7/.
 3. Composition/information on components 3.1. Information of the product in general 3.1.1. Chemical Name: (under IUPAC) 	None
3.1.2. Formula:3.1.3. Characteristics of the composition:(taking into account brand assortment and specification contaminations and functional additives affecting the had arising from the product, method for the production)	None, complex mixture It is an ampholytic surfactant (SAS) (derivative product of the on of mixture of agricultural oils phosphatides and tall oil pitch zards oxygenates) /1/. Brand assortment: /1/ - Adhesive Additive Azol 1003 grade A - Adhesive Additive Azol 1003 grade B - Adhesive Additive Azol 1003 grade C Grades are different in component ratio and applications /1/.
3.2. Components: (Name, CAS No. and EC No. (if available), %wt., OE or SRLI, hazard class(es), references)	Lw.a.

Components	% wt.	CAS No.	EC No.	OELw.a., mg/m ³	Hazard	References
					class(es)	
Pitch concentrate:	Up to 10	8016-81-7	232-414-4	Not determined	No	/11/
tall-oil fatty acid, including:		61790-12-3	263-107-3	Not determined	No	/11/

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- oleic acid		112-80-1	204-007-1	5	3	/11/
- rosin acids		No	No	Not determined	No	/11/
- unsaponifiables		No	No	Not determined	No	/11/
- oxygenates		No	No	Not determined	No	/11/
Phosphatide concentrate	Up to 90	No	No	Not determined	No	/11/

4. First aid measures

4.1. Symptoms:

4.1.1. If inhaled: Under normal conditions, it is not expected to present an inhalation hazard due its low volatility. Long-term exposure to vapor and aerosol by inhalation (if heated up to 140°C-200°C) can cause throat tickle, cough, and headache /28, 29/. 4.1.2. Skin contact: Prolonged contact may cause drying and defatting of the skin /17, 28, 29/. 4.1.3. Eye contact: Redness, tearing, pain /17, 28/. 4.1.4. Ingestion: Stomachache, nausea, vomiting, and diarrhea /17, 28/. 4.2. First-aid measures to the affected 4.2.1. If inhaled: Remove casualty to fresh air, keep warm, and at rest, provide clean clothing. Get medical attention, if needed /17, 28/. 4.2.2. Skin contact: Remove contaminated clothing. Flush contaminated skin with large amounts of water and soap /17, 28/. 4.2.3. Eye contact: Flush eyes thoroughly with plenty of water for several minutes, seek medical attention if irritation persists /17, 28/. 4.2.4. Ingestion: Rinse mouth. Drink plenty of water, charcoal slurry, and saline purgative. DO NOT induce vomiting. Seek medical attention /17, 28/. DO NOT induce vomiting. 4.2.5. Counter-indications: Remove casualty to fresh air and keep at rest. Standard first 4.2.6. First aid equipment (first aid kit): aid kit, charcoal slurry, saline purgative. **5.** Fire-fighting measures Adhesive Additive Azol 1003 is flammable /1/. 5.1. Characteristics of fire/explosion hazards: 5.2. Indicators of fire/explosion hazards: (a list of indicators Flash point: >230°C /1/. under GOST 12.1.044 and GOST R 51330.0) 5.3. Hazards arising from combustion products and/or Fire and thermal decomposition may produce toxic products, thermal decomposition: and carbon oxides harmful for human health /28/. 5.4. Suitable extinguishing media: For small fires: foam and powder extinguishers, sand, and fire blanket. For large fires: it is recommended to use foam spray /1/. 5.5. Not appropriate extinguishing media: Water spray jet /29/. 5.6. Personal protective equipment during fire extinguishing: Fire-fighting suit with a self-rescuer apparatus "СПИ-20" (fire-fighters' PPE) /22/. 5.7. Specific hazards: Do not come to burning containers. Cool exposed containers with water from a protected position /22/. 6. Accidental release measures 6.1. Measures to prevent hazardous exposure to people, the environment, buildings, constructions, etc. in emergencies and accidents 6.1.1. Required general actions: Keep non-emergency personnel out of the affected area. Isolate the hazard area. Remove sources of fire, sparks, do not smoke. Use PPE /22/. Overalls, oil and petrol resistant gloves, butyl rubber gloves, 6.1.2. Personal protective equipment: safety goggles, and safety shoes /22/. (emergency response team and personnel) 6.2. Response measures to emergencies and accidents 6.2.1. Spill, Leak, and Release Procedure: In the premises: (including precautions to protect the environment) Turn on the emergency ventilation. Contain the released material; prevent the product from entering drains. Cover a spillage area with sand or other absorbent material. When transporting: Take the vehicle to a safe place. Inform the territorial body of the Federal Service for Consumer Rights and Human Welfare

Protection. Dike a spillage area; cover it with sand, soil, or

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6.2.2. Fire management:	0 5 2 2 1 5 5 5 1 6 6 1 7	or organic fibrous watercourse, base sand (soil or absor- and remove to furth authorities of the 1 Human Welfare Pr soil. Wash the veh soil /22/. In case of fire: avo exposed containers recommended to u /22/.	ent material (DO NOT cover with sawdust materials. Prevent spillage from entering ments, or sewers. Collect contaminated bent material) in separate containers, seal her disposal at a place agreed with the local Federal Service for Consumer Rights and otection. Cover areas of cut-offs with fresh hicle surfaces with detergents. Replow the bid coming up to burning containers, cool s with water from a protected position. It is se foam spray, and full protective clothing
7. Storage and handling chemicals du 7.1. Safety measures when handling c		ng operations	
7.1.1. Safety measures and collective pr (including a system of fire and explosio	rotective equipment: S on hazard measures) I c c t t t t t t t t t t t t t t t t t	Regular control components in the equipment, contain Use explosion-prequipment and pip Equipment and pip equipment. Use of	ction premises with basic fire-fighting PPE.
7.1.2. Measures for protection of the en	vironment: I t	Pressurization of e echnological proc The analysis of in content of harmful	on and accumulation of waste and rags /1/. quipment and containers, compliance with esses when handling the product. ndustrial emissions and effluents for the substances in permissible concentrations. ulated waste disposal /1/.
7.1.3. Recommendations for safe displace7.2. Storage:	cement and transport: 7 I I I I I I I	To ensure the sat product are transpo- pallets and means proof should be co	fety of the product, containers with the orted in the packaged form with the use of of fastening. Conditions on container leak
7.2.1. Safe storage conditions and terms (including storage warranty period)	t 1	emperature on pa under cover, prev	ed in drums shall be stored at ambient llets in closed warehouses or open areas venting ingress of moisture /1/. Storage is twelve months from the date of
7.2.2. Storage incompatibility:7.2.3. Recommended packing materials	: 22	Steel top plate rem 275 dm ³ . Steel top plate rem	acids, strong alkalis /28, 29/. oving type drums of capacity 100, 200, and noving type barrels of capacity 55 dm ³ . ng drums with polyethylene liner with $0 \text{ dm}^3/1$, 10/
7.3. General safety rules and storage pre-		· ·	
use: 8. Engineering controls and personal 8.1. Occupational parameters subject to (OELw.a. or SRLI): 8.2. Measures to ensure the content of h permissible concentrations:	o compulsory control A (harmful substances in (H	At production and Oleic acid - 5 mg/1	m ³ y and exhaust ventilation of the production quipment.
8.3. Personal protection equipment of 8.3.1. General advice:	f the personnel: S I I I I I I I I I I I I I I I I I I	Avoid breathing v skin contact with personal hygiene product, wash han	vapors and aerosols, avoid direct eye and the product, and use PPE. Observe good measures, do not eat when using this ids after handling the material and before nd/or smoking. Clean and wash protective

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		medical check-ups	raining in occupational safety, and regula of the personnel engaged in production
8.3.2. Respiratory Protection (RPE type	s):		be equipped with respirators "PV-60" $(7A)$ " or of similar type (1.2)
8.3.3. Protective overalls (materials, typ	e):		-67A", or of similar type /1, 3/. e gloves, safety goggles, and leather shoe
8.3.4. Personal protective equipment whin household:	nen using the product		old /1/.
9. Physical and chemical properties /1 /	Grade A	Grade	e B Grade C
9.1. Appearance	Paste of dark-brown	n color	Fluid of dark-brown color
(physical form, color, odor)			
9.2. Odor		Mild characteristic	
9.3. Non-volatile content, %, not less	95.0	99.(
9.4. Flash point, °C, not lower		230 (for all grades)	
9.4. Viscosity, relative viscosity according to viscosity meter "BYE-1 Φ ", with the nozzle diameter of 5 mm at 20°C, sec., not more	-	180) 175
10. Stability and Reactivity 10.1. Chemical stability: (indicate decomposition products for un 10.2. Reactivity:	stable products)	Stable under the conditions /1/.	prescribed storage and transportation
10.3. Conditions to be Avoided: (including hazardous effects whe incompatible materials)	n contacting with	Heating, contact w/27/.	vith acids, alkalies, and strong oxidizer
11. Toxicological information			
11.1. General characteristics of exposur (assessment of health exposure risk (tox		through eye muco membranes, prolo defatting and dryin Toxic effects are gi	. The most hazardous routes of entry are sa and skin contact. Irritant to mucou nged and repeated contact may cause g of skin /27/. iven for the product in general and on the omposition, pitch concentrate.
11.2. Routes of exposure:		Inhalation, eye and	skin contact, and ingestion.
(respiratory, oral, skin and eye contact) 11.3. Target organs, tissues and systems	s of a human:		vstem, respiratory system, liver, kidneys
11.4. Data on health hazards of the di product, and delayed effects:	rect contact with the	0	c, eye mucosa and skin /20/.
(irritant effect on the upper respiratory including skin-resorptive effects; sensit			
- irritant effect			s membranes, prolonged and repeated defatting and drying of skin /1, 27/.
- skin-resorptive effects		It has skin-resorptive	
- sensitizing effects		Not determined /1,	27/.
11.5. Information on delayed hazards:			
(Effects on reproductive function	ns, carcinogenicity,		
bioaccumulative potential, etc.)		No. d-(an the same due of
- effects on reproductive functions		No data available f	
- Carcinogenicity		No data available f	-
- bioaccumulative potential		No studies have been Low $/28/$.	en conducted for pitch concentrate /28/.
11.6. Indicators of acute toxicity:		Adhesive Additive	Azol 1003 /27/
$(DL_{50}, route of entry (oral, dermal), typ$	e of animal:	DL50 > 5000 mg/k	
CL_{50} , exposure time (hour), type of anii 11.7. Minimum toxic (dose) concentration	nal)	No data available f	-
			· · · · · · · · · · · · · · · · · · ·
12. Ecological Information			

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The contamination of soils and groundwater through spills, leaks, and unregulated waste disposal and landfill.

12.2. Environmental Effects: In case of violation of handling, storage and transportation rules, unregulated waste disposal, and as a result of emergencies and accidents. 12.3. Observable features of exposure: Formation of a sheen on the surface of the water, changes in sanitary conditions of watercourses, depression of flora of coastal lands, degradation activity in soil.

12.4. The most important characteristics of environmental effects:

12.4.1. Hygienic standards: (exposure limits in air, water, including fishery waters, soil)							
Components	OELs in the	OELs water ² or	OELs fish ³ . or SRLI	OELs or APL soil,	Data sources		
	atmospheric air or	APL-	fish., mg/l, (LNV,	mg/kg (LNV)			
	SRLI in the	water, mg/l, (LNV,	hazard class)				
	atmospheric air,	hazard class)					
	mg/m^3 (LNV ¹ ,						
	hazard class)						
Pitch concentrate	0.1 SRLI	-	-	-	/12, 13, 14/		
Tall-oil fatty acids	0.5 (SRLI)	0.01	-	-	/12, 13, 14/		
		(org.pl., hazard cl. 4)					
Oleic acid	0.1 (SRLI)	0.5	-	-	/12, 13, 14/		
		(gen., hazard cl. 4)					

12.4.2. Ecotoxicity:

(CL, EC for fish, Daphnia magna, algae, etc.)

Pitch concentrate /28/

CL50 fish > 400 mg/l, 96 h

CL50 >2,000 mg/l, 48 h Daphnia magna

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CL50 > 1,000 mg/l, algae
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12.4.3. Distribution and environmental fate through Slowly transformed in the environment. biodegradation and other processes (oxidation, hydrolysis, etc.):

13. Waste (residuals) disposal considerations

13.1. Safety measures when handling wastes from use, storage, Safety measures are similar to those recommended for handling transportation, etc. the main product (see Sections 7 and 8 of the SDS).

containers (packing):

13.2. Information on places and methods of neutralization, Product wastes and used containers are subject to be collected disposal, or removal of substances (material) wastes including in appropriate containers and forwarded for disposal to waste treatment companies with a permit and license for waste recycling, or places agreed with the local authorities of the Federal Service for Consumer Rights and Human Welfare

Protection /20/. Disposal method is incineration.

13.3. Recommendations for waste removal arising from use in Not used in household /1/. household:

14. Transportation information

1 ii 1 unsportation mormation	
14.1. UN Number:	Not applicable /24/
(in accordance with the UN recommendations on carriage of	
dangerous goods (Model Regulations), latest edition)	
14.2. Proper shipping name and/or transportation name:	Adhesive Additive Azol 1003 /1/.
14.3. Types of applicable transport vehicles:	The product is transported by rail and road in accordance with transportation rules effective for that type of transport /1/.
14.4. Classification of dangerous goods:	Not classified as dangerous goods/1/.
(according to GOST 19433 and UN recommendations for	Transportation labelling is in accordance with GOST 14192-
dangerous goods transportation)	96. Manipulation sign:
14.5. Transportation labelling:	"Sealed packing" /1, 8, 10/.
(manipulation signs; basic, additional, and informational	
records)	
14.6. Packing group:	Not regulated /24/.

¹ LNV means limiting nuisance value (tox. - toxicological; san.-tox. - Sanitary-toxicological; org. - organoleptic; refl. reflectory; res. - resorptive; refl.-res. - reflectory-resorptive; fish. - fishery (changes in commercial quality of fishery aquatic

organisms); gen. - general sanitary).

² Water of utility and drinking water bodies and social-community water consumption.

³ Water of fishery-intended water bodies (including marine)

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(in accordance with the UN recommend	lations on carriage of				
dangerous goods)					
14.7. Information on hazards when transp	porting by road:	Not required /21/			
14.8. Transport emergency card:		Not applicable /21, 22, 25/.			
(when transporting by rail, sea, and other					
14.8. Information on hazards concerning transport:		Not required /23/			
(according to the Agreement on Internation					
by Rail, ADR, RID, IMDG Code, ICAO/					
data on hazards for the environment, such	· · · · · ·				
15. State and international regulations					
15.1. State regulations					
15.1.1. The RF laws:		Law On Technical Regulation			
		Public Sanitary Well-Being			
			mental Protection		
15.1.2. Documents regulating requirement	ents for protection of	Not subject to sta	te registration /30/.		
human and environment:					
(Certificates, Sanitary Certificates, record	ds, etc.)				
15.2. International Regulations					
15.2.1. International Conventions and Ag		Ų	by Montreal Protocol and Stockholm		
(Whether regulated by Montreal H	Protocol, Stockholm	Convention.			
Convention, etc.)					
15.2.2. EC Warnings:		Codes and R-phr			
(Danger symbols, hazard statements, etc.	rd statements, etc.)		ng to eyes and skin. Instructions on safety:		
			andling, use protective clothing, protective		
		gloves.			
			of insufficient ventilation, wear suitable		
		respiratory equip	ment.		
16. Other information		65 G L			
16.1. SDS review (new edition):		SDS has been pre	epared for the first time.		
(It is indicated that SDS has been prepare					
other cases with indication of the main r	eason for the SDS to				
be reviewed)					

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16.2. List of References Used while Comprising SDS

1 STO 00205423-001-2012. Adhesive Additive Azol 1003.

2 GOST 12.1.007-76. Occupational safety standards system. Harmful substances. Classification and general safety requirements.

3 GOST 12.4.011-89. Occupational safety standards system. Means of protection. Classification and general requirements.

4 GOST R 12.4.013-97. Occupational safety standards system. Safety glasses. General technical conditions.

5 GOST 12.4.068-79 Occupational safety standards system. Dermatologic personal safety means. Classification and general requirements.

6 GOST 12.4.103-88. Occupational safety standards system. Special protective clothes, personal means of hands and legs protection. Classification.

7 GOST 31340-2007 Labelling of chemicals. General requirements.

8 GOST 14192-96. Marking of cargoes.

9 GOST 19433-88. Dangerous Goods. Classification and marking.

10 GOST 9980.3-86, GOST 9980.4-2002, GOST 9980.5-86 Paint materials. Packing. Marking. Transportation and storage.

11 HS 2.2.5.1313-03, 2.2.5.2308-07 Occupational exposure limits (OELs) and safe reference levels of impact (SRLI) of harmful substances in air at workplace, the Russian Ministry of Health. Moscow.

12 HS 2.1.5.1315-03, 2.1.5.2307-07 Occupational exposure limits (OELs) and approximate permissible level (APL) of chemicals in water of utility and drinking water bodies and social-community water consumption, the Russian Ministry of Health. Moscow.

13 HS 2.1.6.1338-03, 2.1.6.2309-07 Occupational exposure limits (OELs) and safe reference levels of impact (SRLI) of airborne contaminant in the populated area, the Russian Ministry of Health. Moscow.

14 Reference book 'The list of fishery regulations: Occupational exposure limits (OELs) and safe reference levels of impact (SRLI) of harmful substances for water of fishery-intended water bodies'. M., VNIRO publishing, 1999.

15 HS 2.2.5.563-96. Occupational Exposure Limits (OELs) of skin contamination with harmful substances, the Russian Ministry of Health, Moscow, 1997.

16 HS 1.1.725-98 An inventory of substances, products, production processes, household and nature factors, carcinogenic for a human, the Russian Ministry of Health. Moscow. 1999r.

17 Reference book *Harmful chemicals in industry*, v.1, 2, edited by N.V.Lazareva, Leningrad, Khimia publishing, 1976.

18 A.Ya.Korolchenko Fire Hazard of Substances and Materials, and means of their extinguishing, Moscow, Association Pozhnauka, 2000

19 Regulation of fire safety in the Russian Federation, St. Petersburg. DEAN publishing, 2001.

20 Sanitary Rules and Regulations 2.1.7.1322-03 Hygiene requirements for neutralization and disposal of production and consumption wastes.

21 Regulations on carriage of dangerous goods by road, Moscow, 1995.

22 Reports Transport emergency card for dangerous goods transported by railways of the CIS countries, the Republic of Estonia, the Republic of Latvia and the Republic of Lithuania. M.: Transport, 2000.

23 *Regulation on transportation of hazardous cargoes to the Agreement on International Goods Transport by Rail* (Annex 2 of the AIGT), the Ministry of Transport of the Russian Federation, 1998.

ARD. European Agreement concerning the International Carriage of Dangerous Goods by Road. UN. New York and Geneva. 2002.

24 Dangerous Goods recommendations. Model Regulations. 14th revised edition. UN, New York and Geneva, 2005.

25 Draft of Federal Law *On Special Technical Regulation for River Transport Safety and Related Infrastructure*, Federal State Institution Russian River Register.

26 International Maritime Code for Dangerous Goods. IMDG Code, volume 1, 2. St. Petersburg: ZAO CNIIMF, 2007.

27 Records of laboratory analysis of Adhesive Additive Azol 1003 No. 595 dated 3 March 2010.

28 Tall oil pitch data card of Russian Register of Hazardous Chemical and Biological Substances series BT No. 001969.

29 SDS on Pitch concentrate JTM Safety Data Sheet Registration No. 05711131.24.17622 dated 7 June 1998.

30 The unified list of goods subject to sanitary and epidemiological supervision (control) at the customs border and customs territory of Customs Union dated 22 November 2010.