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SAFETY DATA SHEET (according to Regulation (EC) No 1907/2006 (REACH), ANNEX II)

Urea

Revision date: 01.10.2023 Version 4.4

SECTION 1: IDEI	NTIFICATION OF THE SUBSTANCE AND OF THE COMPANY				
1.1 Product identifier					
Trade name:	Urea				
Other names:	Carbonyl Diamide				
Name IUPAC/international chemical name:	Urea				
INDEX No. and name as listed in Annex VI of CLP:	Not listed				
CAS No.:	57-13-6				
EINECS No .:	200-315-5				
REACH registration No.:	01-2119463277-33-0048				
Molecular formula:	CH4N2O				
1.2 Relevant identified uses of the subst	ance or mixture and uses advised against				
Relevant identified uses:	Fertilizers Resins and polymers manufacture Formulation of preparations Intermediates pH-regulating agents				
Uses advised against:	None				
1.3 Details of the supplier of the safety of	lata sheet				
Only Representative:	Zangas Hoch-und Tiefbau GmbH Schwindgasse 5/1/4 1040 Vienna Austria Phone: +43 1 274 16 366				
	www.zangasgroup.com E-mail: info@zangasgroup.com PrJSC "AZOT"				
Manufacturer:	72, Heroiv Kholodnoho Yaru Str., Cherkassy, Ukraine Phone: +38 0472 39-63-03 +38 0472 39-23-33 URL website: http://www.azot.ck.ua Email: let@azot.ck.ua sale@azot.ck.ua				
E-mail address of the person responsible for this Safety Data Sheet:	e PrJSC "AZOT" REACH Department onr@azot.ck.ua				
National contact:	Not available				
1.4 Emergency telephone number					
Emergency phone number:	Phone: +43 1 274 16 366 Opening hours: 9-18 (CET) Languages of the phone service: German, English Phone: + 38 (0472) 39 61 17 Opening hours: 0-24 Languages of the phone service: Ukrainian				
	SECTION 2: HAZARDS IDENTIFICATION				
2.1 Classification of the substance					
The substance is not classified as hazardou	us in accordance with Regulation 1272/2008 (CLP).				
2.2 Label elements					
Hazard pictograms: Signal word: Hazard statements: Precautionary statements	Not applicable No signal word Not applicable				
Prevention: Response: Storage: Disposal:	Not applicable Not applicable Not applicable Not applicable				



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ALVI					
2.3 Other hazards:					
Substance meets the criteria for PBT according to Regulation (EC) No.1207/2006, Annex XIII	No. P: Not available. B: Not available. T: No.				
Substance meets the criteria for vPvB according to Regulation (EC) No.1207/2006, Annex XIII	Not available				
Other hazards which do not result in classification	Fine dust clouds may form explosive mixtures with air. Dust explosion class No. 1 Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.				
SECTIO	ON 3: COMPOSITION/INFORMATION ON ING	REDIENTS			
3.1 Substances					
Components	INDEX No. as listed in Annex VI of CLP	Weight % content (or range)			
Urea	Not listed	Not less than 97 % (w/w)			
Note: This substance is treated with cond	litioning agent (urea-formaldehyde resin).				
	SECTION 4: FIRST-AID MEASURES				
4.1 Description of first aid measures					
General notes:	Appropriate first-aid equipment should be any personal risk or without suitable training	provided. No action shall be taken involving g.			
Following eye contact:	Irrigate thoroughly with water for at least 10	minutes. Obtain medical attention.			
Following skin contact:	Wash the affected parts with water and soa	-			
Following ingestion:	Wash out mouth with water. Do not induce drink. If victim feels unwell seek medical att	vomiting. If victim is conscious, give water to ention.			
Following inhalation:	Remove from exposure. In severe cases, or if reco	Remove from exposure. In severe cases, or if recovery is not rapid or complete seek medical attention.			
Self-protection for the first aider:	None				
4.2 Most important symptoms and effe	ects, both acute and delayed				
Potential acute health effects					
Eye contact:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.				
Inhalation:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.				
Skin contact:	No known significant effects or critical hazards.				
Ingestion:	No known significant effects or critical hazards.				
Over-exposure signs/symptoms					
Eye contact:	Adverse symptoms may include the followir	ng: irritation, redness.			
Inhalation:	Adverse symptoms may include the followir	ng: respiratory tract irritation, coughing.			
Skin contact:	No specific data. The substance can be abs	No specific data. The substance can be absorbed through skin.			
Ingestion:	No specific data. Nausea, vomiting, diarrhea	a.			
4.3 Indication of any immediate medic	al attention and special treatment needed				
Notes to physician:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.				
Specific treatments:	No specific treatment				
	SECTION 5: FIRE-FIGHTING MEASURES				
5.1 Extinguishing media					
Suitable extinguishing media::	Water and extinguishers suitable to put out	the cause of fire			
Not suitable extinguishing media::	None				
5.2 Special hazards arising from the s	ubstance or mixture				
Hazards from the	Fine dust clouds may form explosive mixture	es with air			
substance or mixture:	Decomposition products may include the fol				
Hazardous combustion	carbon dioxide				
products:	carbon monoxide				
	nitrogen oxides				



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5.3 Advice for firefighters				
Special precautions for fire-fighters:	No special measures required			
Special protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathin apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothin for firefighters (including helmets, protective boots and gloves) conforming to Europea standard EN 469 will provide a basic level of protection for chemical incidents.			
Remarks : References: SECTION 9: Physical and chemical properties.				
SE	CTION 6: ACCIDENTAL RELEASE MEASURES			
6.1 Personal precautions, protective equ	ipment and emergency procedures			
areas. Keep unnecessary and unprotected or flames in hazard area. Avoid breathing d 6.1.2 For emergency responders:	be taken involving any personal risk or without suitable training. Evacuate surrounding personnel from entering. Do not touch or walk through spilt material. No flares, smoking			
6.2 Environmental precautions:				
Avoid dispersal of spilt material and runoff a Inform the relevant authorities if the produc	and contact with soil, waterways, drains and sewers. t has caused environmental pollution (sewers, waterways, soil or air).			
6.3 Methods and material for containment	nt and cleaning up			
6.3.2 For cleaning up: Vacuum or sweep up and place into approv 6.3.3 Other information Dispose of via a licensed waste disposal co 6.4 Reference to other sections See section 8 for personal protective equip Remarks : Warning!: Dust explosion class 7.1 Precautions for safe handling	ment and section 13 for waste disposal.			
<u>Measures to prevent fire:</u> Take precautional electricity during transfer by earthing and be <u>Measures to prevent aerosol and dust gene</u> <u>Measures to protect the environment:</u> Preve <u>Advice on general occupational hygiene:</u> De equipment before entering eating areas. W	Do not eat, drink or smoke in work areas. Remove contaminated clothing and protective ash hands, forearms and face thoroughly after handling chemical products, before eating, end of the working period. Appropriate techniques should be used to remove potentially clothing before reusing.			
7.2 Conditions for sale storage, includin				
Technical measures/Storage conditions:	Store under dry conditions. Store in accordance with local regulations. Store in a segregated and approved area, away from incompatible materials (see section 10) and food and drink. Separate from oxidizing materials. The substance is hygroscopic.			
Packing materials:	Polypropylene			
Requirements for storage rooms and vessels:				
Storage class:	13			
Further information on storage conditions:	None			
Incompatible products:	Strong oxidizing agents (hypochlorites, nitric acid, sodium nitrite, etc.)			
7.2 Specific and use(a)	Specific end use(s): None			



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SECTION	8: EXPOSURE CONT			ON	
8.1 Control parameters					
8.1.1 National occupational exposure limit	t values. Not available				
8.1.2 National biological limit values: Not a					
8.1.3 PNEC (Predicted No Effect Concent					
,	,				
Environmental protection target	PNEC				
Aqua – freshwater	-	0.047 mg/L			
Aqua - salt water	-	0.047 mg/L			
Aqua – intermittent releases		No exposure expected			
Sediment	No exposure expected	ed			
Soil	No exposure expected	ed			
Sewage treatment plant	No exposure expected	ed			
Food chain: oral (secondary poisoning)	No exposure expected	ed			
Air:	No exposure expecte	ed			
			ACUTE		
	Rou	ute		fect Level (DNEL)	
	Oral	Not	Workers applicable	General population 42 mg/kg bw/day	
	Dermal) mg/kg bw/day	580 mg/kg bw/day	
	Inhalation		2 mg/m^3	125 mg/m ³	
			LONG TERM Derived No Ff	fect Level (DNEL)	
8.1.4 DNEL:	Rou	ute	Workers	General population	
	Oral		applicable	42 mg/kg bw/day	
	Dermal Inhalation	580) mg/kg bw/day 2 mg/m³	580 mg/kg bw/day 125 mg/m ³	
		ry irritation is no	t predicted. DNEL	dies or from experience of hum s for local effects are therefore r	
8.1.5 Monitoring procedures: Not available	e				
8.2 Exposure controls					
8.2.1 Appropriate engineering controls:					
Substance/mixture related measures to pr	event exposure during	identified uses:	None required.		
Technical measures to prevent exposure: a safety shower for facilities storing or utili				n addition, an eyewash facility a	
8.2.2 Personal protection equipment:					
8.2.2.1 Respiratory protection:	Wear dust protection	n mask, suitable	protective equipm	nent.	
8.2.2.2 Skin protection: Hand protection:	>8 hours (breakthrough time): Nitril rubber (0.35 mm), butyl rubber (0.5 mm), natural rubber (latex) (0.5 mm), neoprene (0.5 mm), Viton (0.4 mm). Replace damaged gloves.				
Other skin protection:	Working clothes.				
8.2.2.3 Eye and face protection:	Safety glasses with s	side shields, suit	able protective ec	quipment.	
8.2.2.4 Thermal hazards:	None	-			
Advice on p Select proper personal p	personal protection is protection based on a				
8.2.3 Environmental exposure controls:	Dispose of rinse wat				
	TION 9: PHYSICAL A				
9.1 Information on basic physical and o					
Appearance:	Solid crystalline, whi	ite			
Odour:					
00001.	Slight				



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Odour threshold:		Not available				
pH:		7,2-9,0 (10% sol)				
Melting/Freezing poi	nt:	133,3 – 134°C				
Initial boiling point ar		No boiling point, decomposes before the boiling point is reached				
Flash-point:		Study technically not feasible				
Evaporation rate:		Not available				
Flammability (solid, g	das):	Non-flammable				
Auto-ignition temper		No evidence of autoflammability				
Upper/lower flamma limits		Not applicable				
Oxidising properties		None				
Vapour pressure:		0,002 Pa at 25°C				
Vapour density:		Not available				
Relative density:		1,330 g/cm ³ at 20ºC				
Solubility in water:		624 g/l at 20ºC				
Partition coefficient r	n-octanol/water:	-1,73 at 20°C				
Decomposition temp	erature:	Above 220°C				
Viscosity:		Study technically not feasible				
Explosive properties		Not available				
9.2 Other informati						
Molecular weight : 6	0.06 g/mole	SECTION 10: STABILITY AND RE				
10.1 Reactivity						
No specific test data	a related to reactivity av	ailable for this product or its ingredi	ents.			
10.2 Chemical stat						
	e. The substance is hy hazardous reactions					
No hazardous react	ion when handled and	stored according to these provisions	s (see section	7, handling a	and storage).	
10.4 Conditions to		atic discharges. To avoid fire or explosi	ion dissinato s	tatic electricity	during transfer by earthing and	
		ferring material. Prevent dust accumula				
10.5 Incompatible	materials		•		•	
Strong oxidizing age	ents (hypochlorites, nitro ne nitrites nitrosyl com	ic acid, sodium nitrite, etc.) Risk of pounds, acids, nitrates. Reacts with	explosion with alkalis calc	h: oxidizing s ium and sodi	ubstances, chromyl chloride,	
10.6 Hazardous de	composition product	S				
	tions of storage and us onia, carbon oxides, ni	e, hazardous decomposition produc	ts should not	be produced	l.	
in case of fire, amm	, , ,	ECTION 11: TOXICOLOGICAL INI				
11 1 Information of	n toxicological effects					
11.1.1 Acute toxicity	•	•				
Route of exposure	Species	Method	Effective dose	Exposure time	Results	
inhalation	Not applicable	Not applicable	Not applicable	Not applicabl	Not applicable	
oral	rat (Wistar) male/female	oral: gavage equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)	_	e _	LD ₅₀ : 14300 mg/kg bw	
dermal	Not applicable	Not applicable	Not applicable	Not applicabl e	Not applicable	
11.1.2 Skin corrosio	n/irritation:	Not irritating				
11.1.3 Serious eye	damage/irritation:	Not irritating				
11.1.4 Respiratory of	or skin sensitization:	Not sensitizing	-			
11.1.5 Germ cell mu	tagenicity:	Negative				
11.1.6 Reproductive		Not available				



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AZOT	.					
11.1.7 Carcinogenicity:	Not carcinogenic					
11.1.8 STOT-single exposure:	Not available					
11.1.9 STOT-repeated exposure:	Not available					
11.1.10 Aspiration hazard:	Not available					
	SECTION 12: ECOLO	GICAL INFORMATIO	N			
12.1 Toxicity	T					
Fish (freshwater, short-term):	-	LC50 values range from >6810 to 28000 mg/l				
Fish (long-term):		Not applicable, urea is of inherently low toxicity				
Freshwater invertebrates (short-term):	EC50/LC50 - 10000 r	ng/l				
Freshwater invertebrates (long-term):	Not applicable, urea i	Not applicable, urea is of inherently low toxicity				
Freshwater algae:	EC10/LC10 or NOEC	: - 47 mg/l				
Terrestrial plants:	The substance is widely	/ used as a plant nutrient	(N-source) in fertilizer, her	nce toxicity is unlikely		
Soil macro-organisms:	Urea is of low toxicity ar	nd rapidly assimilated into	the nitrogen cycle by soil	microorganisms		
Birds:	The limited data avail	able indicate that urea	is of low toxicity to bird	s		
Mammals:	Low toxicity is predicted	base on the physiologica	al production of urea by m	ammalian species		
12.2 Persistence and degradability						
Abiotic degradation:						
Hydrolysis:	Not predicted based	on a theoretical assess	ment of the structure o	f the molecule.		
Phototransformation/photolysis:	No data are available	: not required.				
Biodegradation:	Urea is considered to	be readily biodegrada	ble.			
12.3 Bioaccumulative potential						
Partition coefficient n-octanol /water (log Kow)	-1.73 at 20 °C					
Bioconcentration factor (BCF)	Not available					
Due to the low log Kow value urea is not lik	kely to undergo bioaccu	mulation				
12.4 Mobility in soil						
Adsorption coefficient:	from 0,037 to 0,064					
12.5 Results of PBT and vPvB assessm	ent					
Urea is neither a PBT nor a vPvB substance	æ					
12.6 Other adverse effects:						
No known significant effects or critical haza Remarks: No ecological problems are to b		roduct is handled and u	used with due care and	attention.		
Remarks: No ecological problems are to b 12.7 Additional information: None	e expected when the p			attention.		
Remarks: No ecological problems are to b 12.7 Additional information: None				attention.		
Remarks: No ecological problems are to b 12.7 Additional information: None	e expected when the p	AL CONSIDERATION	S			
Remarks: No ecological problems are to b 12.7 Additional information: None	Empty containers or container must be dis by-products should	AL CONSIDERATION liners may retain sor sposed of in a safe way at all times comply		This material and its uct, solutions and any nts of environmental		
Remarks: No ecological problems are to b 12.7 Additional information: None 13.1 Waste treatment methods	Empty containers or container must be dis by-products should	AL CONSIDERATION liners may retain sor sposed of in a safe way at all times comply disposal legislation an	S me product residues. /. Disposal of this produ with the requiremer	This material and its uct, solutions and any nts of environmental		
Remarks: No ecological problems are to b 12.7 Additional information: None 13.1 Waste treatment methods 13.1.1 Product / Packaging disposal: Waste codes/ waste designations according to LoW (Commission Decision	Empty containers or container must be dis by-products should protection and waste 06 10 99 Wastes not	AL CONSIDERATION liners may retain sol sposed of in a safe way at all times comply disposal legislation an otherwise specified	S me product residues. /. Disposal of this produ with the requiremer	This material and its uct, solutions and any nts of environmental thority requirements.		
Remarks: No ecological problems are to b 12.7 Additional information: None 13.1 Waste treatment methods 13.1.1 Product / Packaging disposal: Waste codes/ waste designations according to LoW (Commission Decision 2001/118/EC):	Empty containers or container must be dis by-products should protection and waste 06 10 99 Wastes not Dispose of surplus and	AL CONSIDERATION liners may retain son sposed of in a safe way at all times comply disposal legislation an otherwise specified non-recyclable products	me product residues. /. Disposal of this product with the requirement d any regional local aut	This material and its uct, solutions and any its of environmental thority requirements.		
Remarks: No ecological problems are to b 12.7 Additional information: None 13.1 Waste treatment methods 13.1.1 Product / Packaging disposal: Waste codes/ waste designations according to LoW (Commission Decision 2001/118/EC): 13.1.2 Waste treatment-relevant information:	Empty containers or container must be dis by-products should protection and waste 06 10 99 Wastes not Dispose of surplus and Avoid dispersal of spilt r	AL CONSIDERATION liners may retain son sposed of in a safe way at all times comply disposal legislation an otherwise specified non-recyclable products naterial and runoff and co	S me product residues. /. Disposal of this produ- with the requiremend any regional local aut via a licensed waste dispo	This material and its uct, solutions and any nts of environmental thority requirements.		
Remarks: No ecological problems are to b 12.7 Additional information: None 13.1 Waste treatment methods 13.1.1 Product / Packaging disposal: Waste codes/ waste designations according to LoW (Commission Decision 2001/118/EC): 13.1.2 Waste treatment-relevant information: 13.1.3 Sewage disposal-relevant information:	Empty containers or container must be dis by-products should protection and waste 06 10 99 Wastes not Dispose of surplus and Avoid dispersal of spilt r The generation of wa	AL CONSIDERATION liners may retain son sposed of in a safe way at all times comply disposal legislation an otherwise specified non-recyclable products naterial and runoff and co	me product residues. /. Disposal of this produ- with the requiremend d any regional local aut via a licensed waste disponent pontact with soil, waterways or minimized wherever	This material and its uct, solutions and any nts of environmental thority requirements.		
Remarks: No ecological problems are to b 12.7 Additional information: None 13.1 Waste treatment methods 13.1.1 Product / Packaging disposal: Waste codes/ waste designations according to LoW (Commission Decision 2001/118/EC): 13.1.2 Waste treatment-relevant information: 13.1.3 Sewage disposal-relevant information:	Empty containers or container must be dis by-products should protection and waste 06 10 99 Wastes not Dispose of surplus and Avoid dispersal of spilt r The generation of wa SECTION 14: TRANS	AL CONSIDERATION liners may retain son sposed of in a safe way at all times comply disposal legislation an otherwise specified non-recyclable products naterial and runoff and co ste should be avoided	me product residues. , Disposal of this produ- with the requiremend d any regional local aut via a licensed waste dispo- ontact with soil, waterways or minimized wherever	This material and its uct, solutions and any nts of environmental thority requirements.		
Remarks: No ecological problems are to b 12.7 Additional information: None 13.1 Waste treatment methods 13.1.1 Product / Packaging disposal: Waste codes/ waste designations according to LoW (Commission Decision 2001/118/EC): 13.1.2 Waste treatment-relevant information: 13.1.3 Sewage disposal-relevant information: 13.1.4 Other disposal recommendations:	Empty containers or container must be dis by-products should protection and waste 06 10 99 Wastes not Dispose of surplus and Avoid dispersal of spilt r The generation of wa SECTION 14: TRANS	AL CONSIDERATION liners may retain son sposed of in a safe way at all times comply disposal legislation an otherwise specified non-recyclable products naterial and runoff and co ste should be avoided	me product residues. , Disposal of this produ- with the requiremend d any regional local aut via a licensed waste dispo- ontact with soil, waterways or minimized wherever	This material and its uct, solutions and any nts of environmental thority requirements.		
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Remarks: No ecological problems are to b 12.7 Additional information: None 13.1 Waste treatment methods 13.1.1 Product / Packaging disposal: Waste codes/ waste designations according to LoW (Commission Decision 2001/118/EC): 13.1.2 Waste treatment-relevant information: 13.1.3 Sewage disposal-relevant information: 13.1.4 Other disposal recommendations: Urea is not classified as a dangerous subst	Empty containers or container must be dis by-products should protection and waste 06 10 99 Wastes not Dispose of surplus and Avoid dispersal of spilt r The generation of wa SECTION 14: TRANS tance when carried by r ADR/RID	AL CONSIDERATION liners may retain sor sposed of in a safe way at all times comply disposal legislation an otherwise specified non-recyclable products naterial and runoff and co ste should be avoided PORT INFORMATION oad (ADR), train (RID) ADN/ADNR	S me product residues. y. Disposal of this produ- with the requiremend d any regional local aut via a licensed waste dispo- ontact with soil, waterways or minimized wherever or maritime (IMDG) IMDG	This material and its uct, solutions and any its of environmental thority requirements.		
Remarks: No ecological problems are to b 12.7 Additional information: None 12.7 Additional information: None 13.1 Waste treatment methods 13.1 Waste treatment methods 13.1.1 Product / Packaging disposal: Waste codes/ waste designations according to LoW (Commission Decision 2001/118/EC): 13.1.2 Waste treatment-relevant information: 13.1.3 Sewage disposal-relevant information: 13.1.4 Other disposal recommendations: Urea is not classified as a dangerous subst 14.1 UN number	Empty containers or container must be dis by-products should protection and waste 06 10 99 Wastes not Dispose of surplus and Avoid dispersal of spilt r The generation of wa SECTION 14: TRANS tance when carried by r ADR/RID	AL CONSIDERATION liners may retain sor sposed of in a safe way at all times comply disposal legislation an otherwise specified non-recyclable products naterial and runoff and co ste should be avoided PORT INFORMATION oad (ADR), train (RID) ADN/ADNR	S me product residues. y. Disposal of this produ- with the requiremend d any regional local aut via a licensed waste dispo- ontact with soil, waterways or minimized wherever or maritime (IMDG) IMDG	This material and its uct, solutions and any its of environmental thority requirements.		



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14.5 Environmental hazards	No	No	No	No
14.6 Special precautions for user	Not available	Not available	Not available	Not available
Additional information	-	-	-	_
14.7 Transport in bulk according to Anno	x II of MARPOL 73/78	and the IBC Code No	ot available	
	SECTION 15: REGUL	ATORY INFORMATIO	N	
15.1 Safety, health and environmental re	gulation/legislation s	pecific for the substa	ince or mixture	
EU Regulations				
Authorisations and/or restrictions on use: <i>Authorisation</i> : EU Regulation (EC) No. 1907/2006 (REACH); Annex XIV - List of substances subject to authorisation Substances of very high concern	No.			
Restrictions on use: Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable			
National regulations (country): Not availabl	e			
15.2 Chemical safety assessment:	In accordance with carried out for this su		ne Chemical Safety A	ssessment has been
		IER INFORMATION		
The information provided in this safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any proceed, unless specified in the text. 16.1 Indication of changes: v. 3.0: Changes were made to comply with the Guidance on the compilation of safety data sheets (version 1.1) v. 3.1: Changes were made to comply with Article 61 (CLP) v. 4.0: Change of contact details				
v. 3.1: Page header; 2.1; 16.2 v. 4.0: Page header; 1.3 v. 4.1: Page header; 1.3 v. 4.2: Page header; 1.3 v. 4.3: Page header; 1.3, 1.4 v. 4.4: Page header; 1.4				
16.2 Abbreviations and acronyms:				
 ADN - European Agreement concernir ADNR - ADN Rhine ADR - Agreement on Dangerous Good CAS - Chemical Abstracts Service CLP - Classification, Labelling and Pade EC - European Commission EC50 - half maximal effective concent 	ls by Road ckaging of chemicals ration		ods on Inland Waterwa	ay
 EINECS - European Inventory of Exist IATA - International Air Transport Asso IBC Code - International Code for the IMDG - International Maritime Dangero IUPAC - International Union of Pure an LC50 - Lethal Concentration LD50 - Lethal Dose 	ociation Construction and Equip ous Goods		g Dangerous Chemicals	s in Bulk
 LoW - List of Wastes MARPOL - International Convention for NOAEL - No observable adverse effect NOEC - No Observed Effect Concentr OECD - Organization for Economic Co PBT - Persistent, bioaccumulative, tox PJSC - Public Joint-Stock Company REACH - Registration, Evaluation, Aut RID - International Rule for Transport of 	t level ation -operation and Develop ic chemical horisation and Restricti	oment on of Chemicals		
 RID - International Rule for Transport 6 STOT - Specific Target Organ Toxicity UN - United Nations 		es by railway		



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vPvB - very persistent, very bioaccumulative		
16.3 Key literature references and sources for data: CSR (Chemical Safety Report), Guidance on safe use etc.		
16.4 Training advice: In accordance with the local regulations		
16.5 Further information: None		