SAFETY DATA SHEET

Sodium tripolyphosphate

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

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Version	:	1

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier	
Product name	: Sodium tripolyphosphate
Chemical name	: Pentasodium triphosphate
EC number	: 231-838-7
REACH Registration number	: 01-2119430450-54-0006
CAS number	: 7758-29-4
Other means of identification	: Triphosphoric acid, pentasodium salt; Triphosphoric acid, sodium salt (1:5); Pentasodium tripolyphosphate; Sodium phosphate; STPP

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	
 Manufacture of detergents. Water treatment agent. Manufacture of ceramics and glass. Chemical synthesis. Industrial use of reactive processing aids. Metal finishing. Use of detergents containing STPP. 	
Uses advised against	Reason
Not determined.	Not determined.

1.3 Details of the supplier of the safety data sheet

Manufacturer: "NDFZ" LLP

Office 1: 8, Omarova Zh st., 050020 Almaty, Medeu district, Republic of Kazakhstan Telephone: + 7 727 3305 601; Fax: +7 727 3305 606

Only Representative PCC Rokita SA

ul. Sienkiewicza 4, 56-120 Brzeg Dolny, Poland Phosphorus Chemistry Business Unit Telephone: +48 71 794 2131; Fax: +48 71 794 3543

e-mail address of person	: suinbayev.a@kpp.kz
responsible for this SDS	

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number: +7 7262 456829 Department of emergency, Taraz city (24 hours, Russian/Kazakh
lang.)

Supplier



SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mono-constituent substance

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements	
Hazard pictograms	: Not applicable.
Signal word	: No signal word.
Hazard statements	: Not applicable.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Supplemental label elements	: Not applicable.

2.3 Other hazards **Product meets**

Product meets the criteria	: []	РВТ	Р	В	Т	vPvB	vP	vB
to Regulation (EC) No. 1907/2006, Annex XIII		Not applicable (Inorganic)	N/A	N/A	N/A	Not applicable (Inorganic)	N/A	N/A

Other hazards which do not result in classification : The product does not contain components included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, and identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration $\geq 0.1\%$ (w/w).

SECTION 3: Composition/information on ingredients

3.1 Substances : Mono-constituent substance							
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре		
pentasodium triphosphate	EC: 231-838-7 CAS: 7758-29-4	≥94	Not classified. See Section 16 for the full text of the H statements declared above.	-	[1]		

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

[1] Constituent

Occupational exposure limits, if available, are listed in Section 8.



4.1 Description of first aid m	neasures
Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.Put on appropriate personal protective equipment (see Section 8).

4.2 Most important symptoms and effects, both acute and delayed

<u>Over-exposure signs/sy</u>	<u>mptoms</u>
Eye contact	: Irritating if eye not washed after exposure, non-irritating if eye washed.
Inhalation	: Dust of the product may cause nose, throat and respiratory track irritation.
Skin contact	: Cause skin irritation and itching. If skin washed after exposure no adverse effects are expected. Absorption through skin limited.
Ingestion	: Ingestion of large quantities may cause irritation, nausea, vomiting, diarrhea.
4.3 Indication of any imm	ediate medical attention and special treatment needed
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments: No specific treatment.SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising f	from	the substance or mixture
Hazards from the substance or mixture	:	No specific fire or explosion hazard.
Hazardous combustion products	:	Decomposition products may include the following materials: phosphorus oxides metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident i there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Additional information	:	Non-explosive.



SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and materials fo	r c	ontainment and cleaning up
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Avoid dust formation. Avoid breathing dust. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations	: No additional information.

Industrial sector specific solutions

: No additional remark.



SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Pentasodium triphosphate	DNEL	Long term Inhalation	0,661 mg/ m³	Workers	Systemic
	DNEL	Short term Inhalation	0,661 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	0,375 mg/ kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	0,375 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0,661 mg/ m ³	General population	Systemic
	DNEL	Short term Inhalation	0,66 mg/m³	General population	Systemic
	DNEL	Long term Dermal	0,375 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Dermal	0,375 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Oral	0,75 mg/ kg bw/dav	General population	Systemic
	DNEL	Short term Oral	0,75 mg/ kg bw/day	General population	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
Pentasodium triphosphate	Sediment	0,19 mg/kg dwt	Equilibrium Partitioning
	Soil	0,14 mg/kg dwt	Equilibrium Partitioning
	Fresh water	0,005 mg/l	Assessment Factors
	Marine	0,005 mg/l	Assessment Factors

8.2 Exposure controls

Appropriate engineering controls : Ensure that eyewash stations and safety showers are close to the workstation location.Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures



Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical product, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Wear suitable gloves tested to EN374.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Use suitable protective equipment to avoid breathing in dust.Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>		
Physical state	:	Solid. [Powder.]
Color	:	White.
Odor	:	Odorless.
Melting point/freezing point	:	622°C
Initial boiling point and boiling range	:	Not applicable.
Flammability	:	Non-flammable.
Lower and upper explosion limit	:	Lack of data.
Flash point	:	Lack of data.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	Not applicable.
рН	:	Not applicable.
Viscosity	:	Lack of data.
Solubility(ies)	:	

Media	Result	
cold water	Soluble	
hot water	Easily soluble	
methanol	Very slightly soluble	
diethyl ether	Not soluble	

Solubility in water

: 148 g/l



Partition coefficient: n-octanol/ water	:	Not applicable.
Vapor pressure	:	Not applicable.
Relative density	:	2,55
Density	:	2,54 g/cm³
Vapor density	:	Lack of data.
Explosive properties	:	Non-explosive.
Oxidizing properties	:	No oxidizing ingredients present.
Particle characteristics		
Median particle size	:	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	The product hydrolyses in the presence of water.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	None known.
10.5 Incompatible materials	:	None.
10.6 Hazardous decomposition products	:	None.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure		
Pentasodium triphosphate	LC50 Inhalation Dusts and mists LD50 Dermal	Rat Rabbit	>390 mg/m ³	4 hours		
	LD50 Oral	Rat	>2000 mg/kg	-		
Conclusion/Summary	Not considered to be toxic to hu	imans.	•			
Acute toxicity estimates						
N/A						
Irritation/Corrosion						
Conclusion/Summary						
Skin	: Non-irritating to the skin.					
Eyes	: Non-irritating to the eyes.					
Respiratory	: Lack of data.					
<u>Sensitization</u>						
Conclusion/Summary						
Skin	Non-sensitizer to skin.					
Respiratory	Lack of data.					
<u>Mutagenicity</u>						



Conclusion/Summarv	: No evidence of genetic toxicity in vivo or in vitro.
Carcinogenicity	
Conclusion/Summary	: No carcinogenic effect. No increase in tumours and no evidence of carcinogenic effect at highest dose = 0.5% in diet = 225 mg/kg/day in 2 year chronic oral toxicity study on rat.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Pentasodium triphosphate	Negative	Negative	Negative	Rat	Oral: 225 mg/kg	2 years

Conclusion/Summary

: No adverse effects on fertility, reproductive performance, offspring viability, offspring survival and offspring body weight at 0.5% in diet = 225 mg/kg/day in 2 year chronic oral toxicity study on rat.

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Pentasodium triphosphate	Negative - Oral Negative - Oral Negative - Oral	Mouse Rabbit Rat	238 mg/kg 250 mg/kg 170 mg/kg	-

Conclusion/Summary : No teratogenic effect.

Specific target organ toxicity (single exposure)

No known significant effects or critical hazards.

Specific target organ toxicity (repeated exposure)

No known significant effects or critical hazards.

Aspiration hazard

No known significant effects or critical hazards.

Information on the likely routes of exposure	:	Routes of entry anticipated: Inhalation, Eyes. Routes of entry not anticipated: Oral, Dermal.
Potential acute health effect	<u>cts</u>	
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.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the p	hysic	al, chemical and toxicological characteristics
Eye contact	:	Irritating if eye not washed after exposure, non-irritating if eye washed.
Inhalation	:	Dust of the product may cause nose, throat and respiratory track irritation.
Skin contact	:	Cause skin irritation and itching. If skin washed after exposure no adverse effects are expected. Absorption through skin limited.
Ingestion	:	Ingestion of large quantities may cause irritation, nausea, vomiting, diarrhea.
Delayed and immediate eff	ects a	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Inhalation: dust of the product may cause nose, throat and respiratory track irritation
		Eye contact: irritating if eye not washed after exposure, non-irritating if eye washed. Skin contact/Absorption: Cause skin irritation and itching. If skin washed after exposure per adverse offects are expected. Absorption, through skin limited

exposure no adverse effects are expected. Absorption through skin limited. Ingestion: STPP is used as a food additive and is "generally recognised as safe" by the US food and drugs agency. Although , ingestion of large quantities may cause

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		irritation, nausea, vomiting, diarrhea.
Potential delayed effects Long term exposure	:	No adverese effects expected.
Potential immediate effects	:	Inhalation: long exposure to dust of the product may cause respiratory track irritation.
		Eye contact: irritating to eye. Skin contact/Absorption: cause skin irritation and itching. Absorption through skin limited. Ingestion: STPP is used as a food additive and is "generally recognised as safe" by the US food and drugs agency.
Potential delayed effects	:	Lack of data.
Potential chronic health effe	ect	<u>S</u>

Product/ingredient name	Result	Species	Dose	Exposure
Pentasodium triphosphate	Sub-chronic NOAEL Oral Chronic NOEL Oral	Dog Rat	100 mg/kg 225 mg/kg	1 months 2 years
Conclusion/Summary	: Data on animals: Repated dose toxicity - oral: or 225 mg/kg/day (2-yar stud Repated dose toxicity - dern Repated dose toxicity - inha	the no-observed a dies in rats). nal: no data. lation: no data.	dverse effect level	is 0.5% in the diet
General	: Repeated or prolonged inha	lation of dust may	ead to chronic resp	piratory irritation.
Carcinogenicity	: No known significant effects	or critical hazards		
Mutagenicity	: No known significant effects or critical hazards.			
Reproductive toxicity	: No known significant effects	or critical hazards		

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

The product does not contain components included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, and identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration $\geq 0.1\%$ (w/w).

11.2.2 Other information

No additional information.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Pentasodium triphosphate	EC50 >900 mg/l	Aquatic plants	7 days
	EC50 160 mg/l	Aquatic plants	90 hours
	EC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 >1850 mg/l	Fish	24 hours

Conclusion/Summary : Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Conclusion/Summary : Not applicable.

12.3 Bioaccumulative potential

Lack of data.

12.4 Mobility in soil

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Soil/water partition coefficient (Koc)	: 142,44
Mobility	: Lack of data

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
Pentasodium triphosphate	Not applicable (Inorganic)	N/A	N/A	N/A	Not applicable (Inorganic)	N/A	N/A

12.6 Endocrine disrupting properties

The product does not contain components included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, and identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration $\geq 0.1\%$ (w/w).

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional or local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
Hazardous waste	Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

European waste catalogue (EWC)

Waste code	Waste designation		
16 03 04	inorganic wastes other than those mentioned in 16 03 03		
Packaging			
Methods of disposal	: The genera packaging s when recyc	ation of waste should be avoided or minimized wherever possible. Waste should be recycled. Incineration or landfill should only be considered ling is not feasible.	
Type of packaging		European waste catalogue (EWC)	
Bag	15 01 02	plastic packaging	
Special precautions	: This materi	al and its container must be disposed of in a safe way. Empty containers	

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-



14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

14.6 Special precautions for user: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in : Not regulated. **bulk according to IMO**

instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

<u>Annex XIV</u>

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

Other EU regulations

DIRECTIVE 2008/68/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 September 2008 on the inland transport of dangerous goods (ADR, ADN, RID) IATA /International Air Transport Association/ Dangerous Goods Regulations (ICAO/IATA DGR) International Maritime Dangerous Goods Code (IMDG CODE)

Explosives precursors : Not applicable.

(1148/2019/EU)

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants (1021/2019/EU)

Not listed.

<u>Seveso Directive</u> This product is not controlled under the Seveso Directive.

National regulations

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.





SECTION 16: Other information

Changes to the Safety Data Sheet	: Not applicable.
Sheet Abbreviations and acronyms	 ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road AOX = Adsorbable Organically Bound Halogens ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] CMR = Carcinogen, Mutagen or Reproductive toxicant CSA = Chemical Safety Assessment DMEL = Derived No Effect Level DNEL = Derived No Effect Level DNEL = Derived No Effect Level EC number = EINECS or ELINCS number EC50 = Half maximal effective concentration ES = Exposure Scenario EUH statement = CLP-specific Hazard statement EWC = European Waste Catalogue GHS = Globally Harmonized System of Classification and Labelling of Chemicals H statement = CLP/GHS Hazard statement IATA = International Air Transport Association IBC = Internetiate Bulk Container IC50 = Half maximal inhibitory concentration IMDG = International Maritime Dangerous Goods LC50 = Median lethal dose LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available OECD = Organisation for Economic Co-operation and Development PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RDA = Net available OECD = Cognisation for Economic Co-operation and Development PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration R harse = DSD/DPD Risk phrase R EACH Registration, Evaluation, Authorisation and Restriction
	vPvB = Very Persistent and Very Bioaccumulative
Procedure used to derive the	classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified.

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP]

Not applicable.

Training advice

: Ensure operatives are trained to minimise exposures.

Notice to reader



The information contained herein is accurate to the latest knowledge and describes the product from the point of view of help and environmental protection as well as safe handling. The information presented in this SDS refers to the technical product only and will not apply to any processed product. Final determination of the suitability of any materials for the chosen application(s) is the sole responsibility of the user"



