



# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## ATLAS FUGA EPOKSYDOWA - składnik B

Creation date 18th February 2021  
Revision date Version 7.0

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

- 1.1. Product identifier** ATLAS FUGA EPOKSYDOWA - składnik B  
Substance / mixture mixture  
UFI DYSS-26EE-MN0T-E52A
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Hardener for epoxy resins.  
**Mixture uses advised against**  
The product should not be used in ways other than those referred in Section 1.  
**Main intended use**  
PC-ADH-8 Multi-component adhesives and sealants  
**Secondary uses**  
PC-ADH-2 Adhesives and sealants - building and construction works (except cement based adhesives)
- 1.3. Details of the supplier of the safety data sheet**  
**Supplier**  
Name or trade name ATLAS sp. z o.o.  
Address Św. Teresy 105, Łódź, 91-222  
Poland  
VAT Reg No PL9471936467  
Phone +48 42 631 89 45  
E-mail msds@atlas.com.pl  
Web address www.atlas.com.pl  
**Competent person responsible for the safety data sheet**  
Name ATLAS sp. z o.o.  
E-mail msds@atlas.com.pl
- 1.4. Emergency telephone number**  
National Health Service (NHS) 111

### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**  
The mixture is classified as dangerous.

Skin Corr. 1, H314  
Skin Sens. 1A, H317  
Eye Dam. 1, H318  
Aquatic Acute 1, H400  
Aquatic Chronic 1, H410

Full text of all classifications and hazard statements is given in the section 16.

#### Most serious adverse effects on human health and the environment

May cause an allergic skin reaction. Causes serious eye damage. Causes severe skin burns and eye damage. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

- 2.2. Label elements**  
**Hazard pictogram**



**Signal word**  
Danger



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### Hazardous substances

Reaction products of C18 unsaturated fatty acids with tetraethylene pentamine  
Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall oil fatty acids and triethylenetetramine  
3-aminomethyl-3,5,5-trimethylcyclohexylamine

### Hazard statements

H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.

### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P280 Wear protective gloves.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a doctor.  
P391 Collect spillage.  
P501 Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.

### Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger. Container must be fitted with child-resistant fastening.

### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Mixture of substances and additives specified below.

#### Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 1226892-45-0 Registration number: 01-2119487006-38	Reaction products of C18 unsaturated fatty acids with tetraethylene pentamine	59-64	Skin Corr. 1C, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	1
CAS: 68082-29-1 EC: 500-191-5	Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall oil fatty acids and triethylenetetramine	25-30	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Chronic 2, H411	1
Index: 612-067-00-9 CAS: 2855-13-2 EC: 220-666-8 Registration number: 01-2119514687-32	3-aminomethyl-3,5,5-trimethylcyclohexylamine	18-19	Acute Tox. 4, H302+H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Chronic 3, H412	

#### Notes

1 Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.

Full text of all classifications and hazard statements is given in the section 16.



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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

##### **If inhaled**

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

##### **If on skin**

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Rinse skin with water or shower. Rinse cautiously with water for several minutes.

##### **If in eyes**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

##### **If swallowed**

RINSE THE MOUTH WITH WATER IMMEDIATELY AND LET THE PERSON DRINK 2-5 dl of cold water to reduce the heating effect of the corrosive substance. Consuming larger amounts of liquid is not advisable as it may induce vomiting and potential inhaling of the corrosive substances in the lungs. The affected person must not be forced to drink, particularly if already feeling pain in the mouth or throat. In this case let the affected person only rinse the mouth with water. DO NOT PROVIDE ACTIVATED CARBON! Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.

#### 4.2. Most important symptoms and effects, both acute and delayed

##### **If inhaled**

Inhaling vapours can cause corrosion of the breathing system.

##### **If on skin**

Causes severe skin burns. May cause an allergic skin reaction.

##### **If in eyes**

Causes serious eye damage.

##### **If swallowed**

Corrosion of the digestion system can occur.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### **Suitable extinguishing media**

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

##### **Unsuitable extinguishing media**

Water - full jet.

#### 5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

#### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.



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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes.

#### 6.2. Environmental precautions

Do not allow to enter drains. Prevent contamination of the soil and entering surface or ground water.

#### 6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

#### 6.4. Reference to other sections

See the Section 7, 8 and 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Do not inhale aerosols. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in a dedicated, cool, dry and well ventilated room. Store locked up. Storage temperature from +5 degrees C to +30 degrees C

#### 7.3. Specific end use(s)

not available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

The mixture contains no substances for which occupational exposure limits are set.

##### DNEL

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	20.1 mg/m <sup>3</sup>	Systemic acute effects	
Workers	Inhalation	20.1 mg/m <sup>3</sup>	Local acute effects	
Consumers	Oral	0.526 mg/kg bw/day	Systemic chronic effects	

Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall oil fatty acids and triethylenetetramine

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Oral	3.9 mg/kg	Systemic chronic effects	
Workers	Dermal	1.1 mg/kg	Systemic chronic effects	
Workers	Inhalation	0.97 mg/m <sup>3</sup>	Systemic acute effects	
Consumers	Oral	0.56 mg/kg	Systemic chronic effects	

Reaction products of C18 unsaturated fatty acids with tetraethylene pentamine

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	29 mg/m <sup>3</sup>	Systemic chronic effects	
Workers	Dermal	4.2 mg/kg	Systemic chronic effects	
Consumers	Inhalation	8.7 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Dermal	2.5 mg/kg	Systemic chronic effects	
Consumers	Oral	2.5 mg/kg	Systemic chronic effects	



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### PNEC

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Route of exposure	Value	Determining method
Drinking water	0.06 mg/l	
Seawater	0.006 mg/l	
Water (intermittent release)	0.23 mg/l	
Microorganisms in wastewater treatment plants	3.18 mg/l	
Freshwater sediment	5.784 mg/kg	
Sea sediments	0.578 mg/kg	
Soil (agricultural)	1.121 mg/kg	

Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall oil fatty acids and triethylenetetramine

Route of exposure	Value	Determining method
Drinking water	0.00434 mg/l	
Seawater	0.00043 mg/l	
Water (intermittent release)	0.0434 mg/l	
Microorganisms in wastewater treatment plants	3.84 mg/l	
Freshwater sediment	434.02 mg/kg	
Sea sediments	43.4 mg/kg	
Soil (agricultural)	86.78 mg/kg	

Reaction products of C18 unsaturated fatty acids with tetraethylene pentamine

Route of exposure	Value	Determining method
Drinking water	0.0307 mg/l	
Seawater	0.00307 mg/l	
Microorganisms in wastewater treatment plants	2.3 mg/l	
Freshwater sediment	119.8 mg/kg	
Sea sediments	11.98 mg/kg	
Soil (agricultural)	9.44 mg/kg	
Oral	20 mg/kg	

### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

#### Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

#### Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

#### Respiratory protection

Mask with a filter in a poorly ventilated environment.

#### Thermal hazard

Data not available.

#### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties



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Physical state	liquid
Color	yellow
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	>100 °C
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	>100 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	11-12 (undiluted)
Kinematic viscosity	data not available
Solubility in water	partially soluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	data not available
Relative density	1 g/cm <sup>3</sup> (20 °C)
Relative vapour density	data not available
Particle characteristics	data not available
Form	gel

### 9.2. Other information

not available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

May react with strong oxidizing agents.

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Unknown.

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

### 10.5. Incompatible materials

Protect against strong acids and bases as well as oxidizing substances, aldehydes, ketones and epoxy resins.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## SECTION 11: Toxicological information

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

No toxicological data is available for the mixture.

#### Acute toxicity

Based on available data the classification criteria are not met.

Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall oil fatty acids and triethylenetetramine

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	OECD 423	>2000 mg/kg		Rat (Rattus norvegicus)	F
Dermal	LD <sub>50</sub>	OECD 402	>2000 mg/kg		Rat (Rattus norvegicus)	F/M



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### Corrosivity

Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall oil fatty acids and triethylenetetramine

Route of exposure	Result	Method	Time of exposure	Species
Eye	Highly irritating, Serious eye damage	OECD 405		Rabbit

### Irritation

Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall oil fatty acids and triethylenetetramine

Route of exposure	Result	Time of exposure	Species
Dermal	Irritating		

### Skin corrosion/irritation

Causes severe skin burns.

### Serious eye damage/irritation

Causes serious eye damage.

### Respiratory or skin sensitisation

May cause an allergic skin reaction.

Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall oil fatty acids and triethylenetetramine

Route of exposure	Result	Method	Time of exposure	Species	Sex
Dermal	Sensitizing	OECD 429		Mouse	

### Germ cell mutagenicity

Based on available data the classification criteria are not met.

### Carcinogenicity

Based on available data the classification criteria are not met.

### Reproductive toxicity

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

### Repeated dose toxicity

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Route of exposure	Parameter	Result	Value	Time of exposure	Species	Sex
Oral			60 mg/kg	216 hour	Rat (Rattus norvegicus)	F/M



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Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall oil fatty acids and triethylenetetramine

Route of exposure	Parameter	Result	Value	Time of exposure	Species	Sex
Oral	NOAEL		1000	6 week	Rat ( <i>Rattus norvegicus</i> )	F/M

Reaction products of C18 unsaturated fatty acids with tetraethylene pentamine

Route of exposure	Parameter	Result	Value	Time of exposure	Species	Sex
Oral	NOAEL		≥300	672 hour	Rat ( <i>Rattus norvegicus</i> )	F/M

### Aspiration hazard

Based on available data the classification criteria are not met.

### 11.2. Information on other hazards

not available

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute toxicity

Very toxic to aquatic life with long lasting effects.

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Parameter	Method	Value	Time of exposure	Species	Environment
LC <sub>50</sub>		110 mg/l	96 hour	Fishes ( <i>Leuciscus idus</i> )	Freshwater
EC <sub>50</sub>	OECD 202	23 mg/l	48 hour	Daphnia ( <i>Daphnia magna</i> )	Freshwater
EC <sub>50</sub>		37 mg/l	72 hour	Algae	Freshwater
EC 10		1120 mg/l	18 hour	Microorganisms ( <i>Pseudomonas putida</i> )	Freshwater

Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall oil fatty acids and triethylenetetramine

Parameter	Method	Value	Time of exposure	Species	Environment
LC <sub>50</sub>	OECD 203	7.07 mg/l	96 hour	Fishes ( <i>Branchydanio rerio</i> )	Freshwater
EC <sub>50</sub>	OECD 202	7.07 mg/l	48 hour	Daphnia ( <i>Daphnia magna</i> )	Freshwater
EC <sub>50</sub>	OECD 201	4.34 mg/l	72 hour	Algae ( <i>Selenastrum capricornutum</i> )	Freshwater
EC <sub>50</sub>	OECD 209	384 mg/l	3 hour	Microorganisms	Activated sludge

Reaction products of C18 unsaturated fatty acids with tetraethylene pentamine

Parameter	Method	Value	Time of exposure	Species	Environment
LC <sub>50</sub>	OECD 203	0.19 mg/l	96 hour	Fishes ( <i>Branchydanio rerio</i> )	Freshwater
EC <sub>50</sub>	OECD 202	0.18 mg/l	48 hour	Daphnia ( <i>Daphnia magna</i> )	Freshwater
EC <sub>50</sub>	OECD 201	0.0638 mg/l	72 hour	Algae and other aquatic plants ( <i>Selenastrum capricornutum</i> )	Freshwater





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Reaction products of C18 unsaturated fatty acids with tetraethylene pentamine

Parameter	Method	Value	Time of exposure	Species	Environment
EC <sub>50</sub>	OECD 209	109.4 mg/l	3 hour	Microorganisms	Activated sludge
NOEC	OECD 222	944 mg/kg	1344 hour	Eisenia fetida	

### Chronic toxicity

Reaction products of C18 unsaturated fatty acids with tetraethylene pentamine

Parameter	Method	Value	Time of exposure	Species	Environment
NOEC	OECD 211	0.0320 mg/l	21 day	Daphnia (Daphnia magna)	Freshwater

## 12.2. Persistence and degradability

### Biodegradability

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Parameter	Method	Value	Time of exposure	Environment	Result
		8 %	28 day	Activated sludge	Hardly biodegradable

Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall oil fatty acids and triethylenetetramine

Parameter	Method	Value	Time of exposure	Environment	Result
	OECD 301B	0-70 %	74 day	Activated sludge	Hardly biodegradable

Reaction products of C18 unsaturated fatty acids with tetraethylene pentamine

Parameter	Method	Value	Time of exposure	Environment	Result
					Biodegradable

not available

## 12.3. Bioaccumulative potential

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Parameter	Method	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Log Pow	OECD 107	0.99				23°C

Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall oil fatty acids and triethylenetetramine

Parameter	Method	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Log Pow		10.34				

Data not available.

## 12.4. Mobility in soil

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Parameter	Value	Environment	Surrounding temperature
Koc	928		



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Data not available.

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### 12.6. Endocrine disrupting properties

not available

### 12.7. Other adverse effects

Data not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Danger of environmental contamination, follow the applicable regulations on waste disposal. Store unused product and contaminated packaging in closed containers for waste collection and hand over for disposal to a specialized company authorized to conduct such activity. Do not pour unused product into drains. Must not be disposed of together with municipal waste. Empty packaging can be used for energy purposes in a waste incineration plant or collected in a landfill with an appropriate classification. Perfectly cleaned packaging can be recycled. The classification of waste may change depending on where it is generated.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### Waste type code

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances \*

#### Packaging waste type code

15 01 10 packaging containing residues of or contaminated by hazardous substances \*

(\* ) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

## SECTION 14: Transport information

### 14.1. UN number or ID number

UN 2735

### 14.2. UN proper shipping name

AMINES, LIQUID, CORROSIVE, N.O.S. (contains reaction products of C18 unsaturated fatty acids with tetraethylene pentamine )

### 14.3. Transport hazard class(es)

8 Corrosive substances

### 14.4. Packing group

III - substances presenting low danger

### 14.5. Environmental hazards

yes

### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

### 14.7. Maritime transport in bulk according to IMO instruments

not available

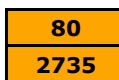
#### Additional information

Hazard identification No.

UN number

Classification code

Safety signs



C7

8+hazardous for the environment





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### Road transport - ADR

Special provisions 274  
Limited quantities 5 L  
Excepted quantities E1

### Packaging

Packing instructions P001, IBC03, LP01, R001  
Mixed packing provisions MP19

### Portable tanks and bulk containers

Guidelines T7  
Special provisions TP1, TP28

### ADR tank

Tank code L4BN  
Vehicles for tank carriage AT  
Transport category 3  
Tunnel restriction code (E)

### Special provision for

packages V12

### Railway transport - RID

Special provisions 274  
Excepted quantities E1

### Packaging

Packing instructions P001, IBC03, LP01, R001  
Mixed packing provisions MP19

### Portable tanks and bulk containers

Guidelines T7  
Special provisions TP1, TP28

### RID Tanks

Tank code L4BN  
Transport category 0

### Special provision for

packages W 12

### Air transport - ICAO/IATA

Packaging instructions for limited amount Y841  
Packaging instructions passenger 852  
Cargo packaging instructions 856

### Marine transport - IMDG

EmS (emergency plan) F-A, S-B  
MFAG 320

## SECTION 15: Regulatory information

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

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Environmental Protection Act 1990 as amended. Clean Air Act 1993 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

### 15.2. Chemical safety assessment

not available

## SECTION 16: Other information

### A list of standard risk phrases used in the safety data sheet

H314 Causes severe skin burns and eye damage.



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H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H302+H312	Harmful if swallowed or in contact with skin.

### Guidelines for safe handling used in the safety data sheet

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P280	Wear protective gloves.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a doctor.
P391	Collect spillage.
P501	Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.

### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

### Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC <sub>50</sub>	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC <sub>50</sub>	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K <sub>ow</sub>	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level



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OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Dam.	Serious eye damage
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

This data sheet replaces version 6.0 of August 31, 2018. Section update: 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

### More information

Classification procedure - calculation method.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.