Safety Data Sheet according to REACH-Regulation (EC) 1907/2006 amended by regulation (EC) 2020/878 (EU) 515 Teak Seal

Ramsauer GmbH & Co KG 5350 Strobl / Wolfgangsee

	printed 20.11.2023, Revision 20.11.20 TION 1: Identification of the sub		Version 1.0	Page 1 / 13
	TION 1: Identification of the sub			
1.1		stance/mixture and of the company/undertaking		
	Product identifier			
		515 Teak Seal		
1.2	Relevant identified uses of the	substance or mixture and uses advised against		
1.2.1	Relevant uses			
		Sealing material		
1.2.2	Uses advised against			
	eece aanooa agamet	None known.		
1 2	Details of the supplier of the se	fatu data abaat		
1.3	Details of the supplier of the sa Company	Ramsauer GmbH & Co KG		
	Company	Alte Bundesstraße 147		
		5350 Strobl / Wolfgangsee / AUSTRIA		
		Phone +43 (0)6135 8205 0 Fax +43 (0)6135 8205-250		
		Homepage www.ramsauer.eu		
		E-mail office@ramsauer.eu		
	Address enquiries to			
	Technical information	office@ramsauer.eu		
	Safety Data Sheet	sdb@chemiebuero.de (No dispatch of safety data sheets)		
		Safety data sheets are available from the supplier.		
1.4	Emergency telephone number			
	Advisory body	+43 (0) 1 406 43 43 (24h)		
SEC	TION 2: Hazards identification			
2.1	Classification of the substance	or mixture [REGULATION (EC) No 1272/2008]		
		Eye Irrit. 2: H319 Causes serious eye irritation. STOT RE 2: H373 May cause damage to the respiratory syste repeated exposure through inhalation.	em through prolon	ged or
2.2	Label elements			
2.2	Laber elements	The product is required to be labelled in accordance with regu	lation CI P.	
	Hazard pictograms			
	Signal word	WARNING		
	Contains:	4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane		
	Hazard statements	H319 Causes serious eye irritation.		
		H373 May cause damage to the respiratory system through p through inhalation.	rolonged or repeat	ed exposure
	Precautionary statements	P260 Do not breathe vapours.		
		P280 Wear eye protection. P314 Get medical advice / attention if you feel unwell.		
		P314 Get medical advice / attention if you reel unwell. P337+P313 If eye irritation persists: Get medical advice / atte	ntion.	
		P501 Dispose of contents/container in accordance with local/		
	Special labelling	Contains: N-[3-(Trimethoxysilyl)propyl]ethylenediamine. EUH2 reaction.	208 May produce a	n allergic

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2.3	Other hazards			
	Human health dangers	Contact with moisture liberates Methanol and Ethanol. Frequent persistent contact with the skin can cause skin irritation	I.	
	Environmental hazards	Does not contain any PBT or vPvB substances. Contains no ingredients with endocrine-disrupting properties.		
	Other hazards	Further hazards were not determined with the current level of kno	owledge.	

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
20 - <50	Polydimethylsiloxan, (((3-(cyclohexylamino)propyl)dimethoxysilyl)oxy)-terminated
	CAS: 129968-18-9, EINECS/ELINCS: Polymer
	GHS/CLP: Eye Irrit. 2: H319
1 - <5	4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane
	CAS: 16068-37-4, EINECS/ELINCS: 240-212-2, Reg-No.: 01-2120764364-51-XXXX
	GHS/CLP: Acute Tox. 3: H301 - Acute Tox. 4: H312 - Aquatic Chronic 3: H412 - STOT RE 1: H372 - EUH071
0.1 - <1	N-[3-(Trimethoxysilyl)propyl]ethylenediamine
	CAS: 1760-24-3, EINECS/ELINCS: 217-164-6
	GHS/CLP: Skin Sens. 1B: H317 - Eye Dam. 1: H318 - STOT SE 3: H335
0.1 - <1	1,2-Bis(triethoxysilyl)ethylene
	CAS: 87061-56-1, EINECS/ELINCS: 689-758-7
	GHS/CLP: Aquatic Chronic 3: H412 - Acute Tox. 3: H301 - Acute Tox. 4: H312 - EUH071

Comment on component parts

For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1	Description of first aid measures	
	General information	Take off contaminated clothing and wash before reuse.
	Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
	Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
	Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
	Ingestion	Seek medical advice immediately.
4.2	Most important symptoms and ef	fects, both acute and delayed

Headache Irritant effects Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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SEC	TION 5: Fire-fighting measures			
5.1	Extinguishing media			
	Suitable extinguishing media	Carbon dioxide. Water spray jet. Dry powder. Foam.		
	Extinguishing media that must not be used	Full water jet.		
5.2	Special hazards arising from the	substance or mixture		
		In the event of fire the following can be released: Carbon monoxide (CO) Nitrogen oxides (NOx).		
5.3	Advice for firefighters			
		Use self-contained breathing apparatus.		
		Fire residues and contaminated firefighting water must be the local regulations.	disposed of in accord	ance within
SEC	TION 6: Accidental release measu	res		
6.1	Personal precautions, protective	equipment and emergency procedures		
		Ensure adequate ventilation. High risk of slipping due to leakage/spillage of product. Use personal protective equipment (protective gloves, safe	ety glasses, protective	clothing).
6.2	Environmental precautions			
		Do not discharge into the drains/surface waters/groundwat	.er.	
6.3	Methods and material for contair	ment and cleaning up		
		Take up mechanically. Take up residues with absorbent material (e.g. sand, sawd diatomaceous earth). Dispose of absorbed material in accordance within the reg		binder,
6.4	Reference to other sections			
0.4		See SECTION 8+13		
SEC	TION 7: Handling and storage			
7.1	Precautions for safe handling	Use only in well-ventilated areas.		
		Wash hands before breaks and after work. Use barrier skin cream. Do not eat, drink, smoke or take drugs at work. Take off contaminated clothing and wash before reuse.		
7.2	Conditions for safe storage, inclu	uding any incompatibilities		
		Keep only in original container. Prevent penetration into the ground.		
		Do not store together with food and animal food/diet.		
		Keep container tightly closed. Keep in a cool place. Store in a dry place. Protect from heat/overheating.		

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7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

a .

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

Substance / EC LIMIT VALUES
Methanol
CAS: 67-56-1, EINECS/ELINCS: 200-659-6, EU-INDEX: 603-001-00-X, Reg-No.: 01-2119433307-44-XXXX
Eight hours: 200 ppm, 260 mg/m ³ , H

DNEL

4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane, CAS: 16068-37-4 Industrial, inhalative, Long-term - local effects, 6 μg/m³ general population, inhalative, Long-term - local effects, 1 μg/m³		Substance
	·	4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane, CAS: 16068-37-4
general population, inhalative, Long-term - local effects, 1 µg/m ³		Industrial, inhalative, Long-term - local effects, 6 μg/m ³
	1	general population, inhalative, Long-term - local effects, 1 μg/m ³

PNEC

ubstance
4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane, CAS: 16068-37-4
il, 6.2 - 7.2 μg/kg soil dw
ediment (seawater), 7.8 - 19 μg/kg sediment dw
ediment (freshwater), 78 - 190 μg/kg sediment dw
ewage treatment plants (STP), 8 g/L
eawater, 1.6 μg/L
eshwater, 16 μg/L

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	>0.7 mm Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing (EN 340)
Other	Avoid contact with eyes and skin. Do not inhale vapours. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, filter A. (DIN EN 14387)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

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SEC	SECTION 9: Physical and chemical properties			
9.1	Information on basic physical an	d chemical properties		
	Physical state	liquid		
	Form	pasty		
	Color	various		
	Odor	characteristic		
	Odour threshold	not determined		
	pH-value	not applicable		
	pH-value [1%]	not determined		
	Boiling point or initial boiling point and boiling range [°C]	not applicable		
	Flash point [°C]	not applicable		
	Flammability	not determined		
	Lower explosion limit	not applicable		
	Upper explosion limit	not applicable		
	Oxidising properties	no		
	Vapour pressure/gas pressure [kPa]	not determined		
	Density [g/cm³]	not determined		
	Relative density	not determined		
	Bulk density [kg/m³]	not applicable		
	Solubility in water	virtually insoluble		
	Solubility other solvents	No information available.		
	Partition coefficient n-octanol/water (log value)	not determined		
	Kinematic viscosity	not applicable		
	Relative vapour density	not determined		
	Evaporation speed	not determined		
	Melting point [°C]	not determined		
	Auto-ignition temperature [°C]	not applicable		
	Decomposition temperature [°C]	not determined		

9.2 Other information

Particle characteristics

none

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

10.4 Conditions to avoid

See SECTION 7.2.

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10.5 Incompatible materials

not determined

10.6 Hazardous decomposition products

Contact with moisture liberates Methanol and Ethanol. In the case of heating (150-180°C) following modest (decomposition) products may occure: Formaldehyde.

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SECTION 11: Toxicological information

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

Acute oral toxicity

Based on available data, the classification criteria are not met.

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Product ATE-mix, oral, Rat, > 2000 mg/kg

 Substance

 Polydimethylsiloxan, (((3-(cyclohexylamino)propyl)dimethoxysilyl)oxy)-terminated, CAS: 129968-18-9

 LD50, oral, Rat, > 2000 mg/kg

 4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane, CAS: 16068-37-4

 LD50, oral, Rat, 161 mg/kg bw

 N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3

 LD50, oral, Rat, 2995 mg/kg

Acute dermal toxicity

Based on available data, the classification criteria are not met.

Product

ATE-mix, dermal, Rat, > 2000 mg/kg

Substance

 4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane, CAS: 16068-37-4

 LD50, dermal, Rat, 1971 mg/kg bw

 N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3

LD50, dermal, Rat, > 2000 mg/kg

Acute inhalational toxicity

Based on available data, the classification criteria are not met.

Product

ATE-mix, inhalation (vapour), > 20 mg/l (4 h)

Substance

4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane, CAS: 16068-37-4 LC50, inhalative, Rat, 377 mg/m³ (4 h)

Serious eye damage/irritation Irritant

Substance
4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane, CAS: 16068-37-4
Rabbit (eye), OECD 404, non-irritating
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
Rabbit, OECD 405, Causes serious eye damage.

Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance
4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane, CAS: 16068-37-4
Rabbit, OECD 404, non-irritating
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
Rabbit, OECD 404, Slight irritant effect - does not require labelling.

Respiratory or skin sensitisation

Based on the available information, the classification criteria are not fulfilled. May produce an allergic reaction.

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Substance		
4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane, CAS: 16068-37-4		
dermal, Guinea pig, OECD 406, non-sensitizing		
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3		
dermal, mouse, OECD 429, sensitising		
dermal, Guinea pig, OECD 406, sensitising		

Based on the available information, the classification criteria are not fulfilled. Specific target organ toxicity single exposure

Specific target organ toxicity — May cause damage to organs through prolonged or repeated exposure through inhalation.

repeated exposure

Substance
4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane, CAS: 16068-37-4
LOAEC, Rat, 0.0027 mg/l (28d; 5d/w; 6h/d), OECD 412
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
NOAEL, oral, Rat, > 500 mg/kg (28d), OECD 422, no adverse effect observed

Mutagenicity

Does not contain a relevant substance that meets the classification criteria.

Substance
4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane, CAS: 16068-37-4
in vivo, OECD 474, negativ
in vitro, OECD 473, negativ
in vitro, OECD 476, positive
in vitro, OECD 471, negativ
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
in vitro, OECD 476, negativ
in vitro, OECD 471, negativ

Reproduction toxicity

Does not contain a relevant substance that meets the classification criteria.

- Fertility

Substance	
N-[3-(TrimethoxysilyI)propyI]ethylenediamine, CAS: 1760-24-3	
NOAEL, oral, Rat, >= 500 mg/kg, OECD 422	

- Development

Substance	
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3	
NOAEL, oral, Rat, >= 500 mg/kg, OECD 422]

	Carcinogenicity Aspiration hazard	Does not contain a relevant substance that meets the classification criteria. Does not contain a relevant substance that meets the classification criteria.
	General remarks	Toxicological data of complete product are not available.
11.2	Information on other hazards 11.2.1 Endocrine disrupting properties	Contains no ingredients with endocrine-disrupting properties.
	11.2.2 Other information	none

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SECTION 12: Ecological information

12.1 Toxicity

Substance
4,4,7,7-Tetraethoxy-3,8-dioxa-4,7-disiladecane, CAS: 16068-37-4
LC50, (96h), Danio rerio, 16 mg/L
EC50, (16h), Pseudomonas putida, 8 g/L
EC50, (72h), Algae, 53 - 671 mg/L
EC50, (48h), Crustacea, 72.6 - 92.2 mg/L
NOEC, (72h), Algae, 102 mg/L
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
LC50, (96h), Danio rerio, 597 mg/l
EC50, (16h), Pseudomonas putida, 67 mg/l
EC50, (48h), Daphnia magna, 81 mg/l
IC50, (72h), Algae, 8.8 mg/l (OECD 201)
NOEC, (14d), >= 1000 mg/kg (Eisenia fetida; OECD 207)
NOEC, (21d), Daphnia magna, > 1 mg/l
NOEC, (72h), Algae, 3.1 mg/l (OECD 201)

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

not determined

12.4 Mobility in soil

not determined

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Ecological data of complete product are not available.

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SECTION 13: Disposal considerations		

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

	For recycling, consult manufacturer. Disposal in an incineration plant in accordance with the regulations of the local authorities.
Waste no. (recommended)	070216*
Contaminated packaging	
	Uncontaminated packaging may be taken for recycling.
Waste no. (recommended)	150110* packaging containing residues of or contaminated by hazardous substances 150102

SECTION 14: Transport information

14.1	UN number or ID number	
	Transport by land according to ADR/RID	not applicable
	Inland navigation (ADN)	not applicable
	Marine transport in accordance with IMDG	not applicable
	Air transport in accordance with IATA	not applicable
14.2	UN proper shipping name	
	Transport by land according to ADR/RID	NO DANGEROUS GOODS
	Inland navigation (ADN)	NO DANGEROUS GOODS
	Marine transport in accordance with IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"
	Air transport in accordance with IATA	NOT CLASSIFIED AS "DANGEROUS GOODS"
14.3	Transport hazard class(es)	
	Transport by land according to ADR/RID	not applicable
	Inland navigation (ADN)	not applicable
	Marine transport in accordance with IMDG	not applicable
	Air transport in accordance with IATA	not applicable

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14.4	Packing group			
	Transport by land according to ADR/RID	not applicable		
	Inland navigation (ADN)	not applicable		
	Marine transport in accordance with IMDG	not applicable		
	Air transport in accordance with IATA	not applicable		
14.5	Environmental hazards			
	Transport by land according to ADR/RID	no		
	Inland navigation (ADN)	no		
	Marine transport in accordance with IMDG	no		
	Air transport in accordance with IATA	no		
14.6	Special precautions for user			
	Relevant information under SECTION 6	to 8.		

14.7 Maritime transport in bulk according to IMO instruments

not applicable

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture					
EEC-REGULATIONS	2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148				
- Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.				
- Annex I (REACH)	The product is not subject to Annex I restrictions.				
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances $\ge 0.1\%$ that are subject to authorisation.				
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1 % of substances with the following restrictions. 40, 75				
	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions. 3				
TRANSPORT-REGULATIONS	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)				
NATIONAL REGULATIONS (EU):					
- Observe employment restrictions for people	Observe employment restrictions for young people.				
- VOC (2010/75/CE)	0 %				

not applicable

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Date printed 20.11.2023, Revision 20.11.2023 SECTION 16: Other information 16.1 Hazard statements (SECTION 3) H335 May cause respiratory irritation. H317 May cause an allergic skin reaction. EUH071 Corrosive to the respiratory tract. H372 Causes damage to lung through prolonged or repeated e H412 Harmful to aquatic life with long lasting effects. H312 Harmful in contact with skin. H301 Toxic if swallowed. H319 Causes serious eye irritation. 16.2 Abbreviations and acronyms: ADR = Accord européen relatif au transport international des m Route RID = Règlement concernant le transport international ferroviai dangereuses ADN = Accord européen relatif au transport international des m voie de navigation intérieure ATE = acute toxicity estimate CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging DMEL = Derived Minimum Effect Level DNEL = Derived Minimum Effect Level DNEL = Derived Minimum Effect Level ECS0 = Median effective concentration ECB = European Chemicals Bureau ECD = Curpean Chemicals Bureau	Version 1.0	ed.
 16.1 Hazard statements (SECTION 3) H335 May cause respiratory irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. EUH071 Corrosive to the respiratory tract. H372 Causes damage to lung through prolonged or repeated e H412 Harmful to aquatic life with long lasting effects. H319 Toxic if swallowed. H319 Causes serious eye irritation. 16.2 Abbreviations and acronyms: ADR = Accord européen relatif au transport international des m Route RID = Règlement concernant le transport international ferroviai dangereuses ADN = Accord européen relatif au transport international des m voie de navigation intérieure ATE = acute toxicity estimate CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging DMEL = Derived Minimum Effect Level DNEL = Derived No Effect Level EC50 = Median effective concentration EC6 = European Chemicals Bureau 	xposure if inhal	ed.
H335 May cause respiratory irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. EUH071 Corrosive to the respiratory tract. H372 Causes damage to lung through prolonged or repeated e H412 Harmful to aquatic life with long lasting effects. H312 Harmful in contact with skin. H301 Toxic if swallowed. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H319 Causes are relatif au transport international des m Route RID = Règlement concernant le transport international ferroviai dangereuses ADN = Accord européen relatif au transport international des m voie de navigation intérieure ATE = acute toxicity estimate CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging DMEL = Derived Minimum Effect Level DNEL = Derived No Effect Level EC50 = Median effective concentration ECB = European Chemicals Bureau	xposure if inhal	ed.
H318 Causes serious eye damage. H317 May cause an allergic skin reaction. EUH071 Corrosive to the respiratory tract. H372 Causes damage to lung through prolonged or repeated e H412 Harmful to aquatic life with long lasting effects. H312 Harmful in contact with skin. H301 Toxic if swallowed. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H310 Causes serious eye irritation. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H319 Causes eye irritation enter the irritation of the irritation international des m voie de navigation intérieure ATE = acute toxicity estimate CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging DMEL = Derived Minimum Effect Level ECS0 = Median effective concentration ECB = European Chemicals Bureau	xposure if inhal	ed.
ADR = Accord européen relatif au transport international des m Route RID = Règlement concernant le transport international ferroviai dangereuses ADN = Accord européen relatif au transport international des m voie de navigation intérieure ATE = acute toxicity estimate CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging DMEL = Derived Minimum Effect Level DNEL = Derived No Effect Level EC50 = Median effective concentration ECB = European Chemicals Bureau		
Route RID = Règlement concernant le transport international ferroviai dangereuses ADN = Accord européen relatif au transport international des m voie de navigation intérieure ATE = acute toxicity estimate CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging DMEL = Derived Minimum Effect Level DNEL = Derived No Effect Level EC50 = Median effective concentration ECB = European Chemicals Bureau		
EEC = European Economic Community EINECS = European Inventory of Existing Commercial Chemic EL50 = Median effective loading ELINCS = European List of Notified Chemical Substances EmS = Emergency Schedules GHS = Globally Harmonized System of Classification and Labe IATA = International Air Transport Association IBC-Code = International Code for the Construction and Equipr Dangerous Chemicals in Bulk IC50 = Inhibition concentration, 50% IMDG = International Maritime Code for Dangerous Goods IUCLID = International Maritime Code for Dangerous Goods IUCLID = International Uniform ChemicaL Information Databas IVIS = In vitro irritation score LC50 = Lethal concentration, 50% LD50 = Median lethal dose LC00 = lethal concentration, 0% LOAEL = lowest-observed-adverse-effect level LL50 = Median lethal loading LQ = Limited Quantities MARPOL = International Convention for the Prevention of Mari NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration PBT = Persistent, Bioaccumulative and Toxic substance PNEC = Predicted No-Effect Concentration REACH = Registration, Evaluation, Authorisation and Restrictio STP = Sewage Treatment Plant TLV®TWA = Threshold limit value – ime-weighted average TLV®STEL = Threshold limit value – short-time exposure limit VOC = Volatile Organic Compounds vPvB = very Persistent and very Bioaccumulative	ire de marchand harchandises da cal Substances elling of Chemic ment of Ships ca se	dises angereuses par als arrying m Ships

 This document does not comply with Regulation (EC) No 1907/2006, article 31 (5) and may be used for internal purposes only.

 Classification procedure
 Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method) STOT RE 2: H373 May cause damage to the respiratory system through prolonged or repeated exposure through inhalation. (Calculation method)

 Modified position
 none

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