

SECTION 1	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	*
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1.1. Product identifier

Product name : STAR BRITE INFLATABLE BOAT & FENDER RESTORER/PROTECTOR
 Product code : 834XX

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

Application : SU21 Consumer product. PC31 Polishes and wax blends. Boat maintenance.

1.3. Details of the supplier of the safety data sheet

Supplier : Star Brite Europe Inc.
 86 bis route de Brignais
 69630 Chaponost, France
 Telephone : +33-478-56-77-80
 Fax : +33-472-39-97-96
 E-mail : jp.kitzinger@starbrite-europe.com
 Website : www.starbrite.com

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:
 FR - Telephone : +33-478-56-77-80 (During office hours only)
 EMERGENCY TELEPHONE NUMBER (for DOCTORS only):
 National Poisons Information Service +44-844 892 0111 (24/7)


SECTION 2	HAZARDS IDENTIFICATION	*
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2.1. Classification of the substance or mixture

CLP classification (1272/2008/EC) : Skin irritation, category 2. Eye irritation, category 2. Skin sensitization, category 1. Hazardous to the aquatic environment — Chronic category 3.
 Human health hazards : Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Contains petroleum distillates, may be harmful when ingested.
 Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives. Combustible.
 Environmental hazards : Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms : 

Signal word : Warning

H- and P-phrases	: H315 Causes skin irritation. : H319 Causes serious eye irritation. : H317 May cause an allergic skin reaction. : H412 Harmful to aquatic life with long lasting effects. : P101 If medical advice is needed, have product container or label at hand. : P102 Keep out of reach of children. : P261 vapour Avoid breathing vapours.
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P280 hands Wear protective gloves and eye protection.
eyes
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of water/soap.
P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
+ P338 lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P273 Avoid release to the environment.
P501 Dispose of contents/container to an official chemical waste depot.

Additional labelling

: Contains: Pine oil .
: 12 % of the mixture consists of ingredient(s) of unknown toxicity.

2.3. Other hazards

Other information : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

SECTION 3	COMPOSITION / INFORMATION ON INGREDIENTS	*
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3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	Remark	REACH nr.
Distillates (petroleum), hydrotreated light	10 - < 20	64742-47-8	265-149-8		
Morpholine	1 - < 3	110-91-8	203-815-1		
Oleic acid, compound with morpholine (1:1)	1 - < 5	1095-66-5	214-139-1		
Fatty acids, tall-oil, compds. with morpholine	1 - < 5	68002-77-7	268-091-1		
Pine oil	1 - < 5	8002-09-3	616-792-1		
Nepheline syenite	5 - < 10	37244-96-5	609-369-8	MAC	

Occupational exposure limit(s), if relevant, are listed in section 8.

Substance name	Hazard Class	H-phrases	Pictograms
Distillates (petroleum), hydrotreated light	Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; STOT SE 3; Aquatic Chronic 2	H226; H304; H315; H336; H411	GHS02; GHS07; GHS08; GHS09
Morpholine	Flam. Liq. 3; Acute Tox. 4; Acute Tox. 3; Acute Tox. 3; Skin Corr. 1A	H226; H302; H311; H331; H314	GHS02; GHS05; GHS07
Oleic acid, compound with morpholine (1:1)	Skin Irrit. 2; Eye Irrit. 2	H315; H319	GHS07
Fatty acids, tall-oil, compds. with morpholine	Skin Irrit. 2; Eye Irrit. 2	H315; H319	GHS07
Pine oil	Flam. Liq. 3; Asp. Tox. 1; Skin Sens. 1; Eye Irrit. 2; Aquatic Chronic 2	H226; H304; H317; H319; H411	GHS02; GHS07; GHS08; GHS09
Nepheline syenite	-----	-----	-----

Reference is made to chapter 16 for full text of each relevant H phrase.

SECTION 4 FIRST-AID MEASURES

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4.1. Description of first aid measures

First aid measures

- Inhalation : Move victim into fresh air. Consult a doctor if victim feels unwell.
- Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor if irritation occurs.
- Eye contact : Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor.
- Ingestion : Do not induce vomiting. Give nothing to drink. Do rinse the mouth. Never give anything by mouth to an unconscious person. Consult a doctor if victim feels unwell.

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

Effects and symptoms

- Inhalation : May cause headache, dizziness and a feeling of sickness.
- Skin contact : Irritant. May cause redness and irritation, sensitisation. May produce an allergic reaction.
- Eye contact : Irritant. May cause redness and pain.
- Ingestion : May cause a feeling of sickness, vomiting and diarrhoea. May cause lung damage, sore throat and lack of breath.

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

- Note to physicians : None known.

SECTION 5 FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

- Suitable : Carbondioxide (CO2). Foam. Dry chemical. Water fog.
- Not suitable : Water jet.

5.2. Special hazards arising from the substance or mixture

- Special exposure hazards : None known.
- Hazardous thermal decomposition products : Carbon monoxide may be evolved if incomplete combustion occurs.

5.3. Advice for firefighters

- Special protective equipment for fire-fighters : Use adequate respiratory equipment in case of insufficient ventilation.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. Vapours are heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

6.2. Environmental precautions

- Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. In case of large spills: contain with dike. Waste product should not be allowed to contaminate soil or water.
- Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an authorised waste collection point. Wash away remainder with plenty of water and soap.

6.4. Reference to other sections

Reference to other sections : See also section 8.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Keep away from sources of ignition — No smoking. Do not breathe vapour. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep frost-free, in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents.
 Recommended packaging : Keep only in the original container.
 Non recommended packaging : Steel (except stainless steel). PE and PP.

7.3. Specific end use(s)

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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8.1. Control parameters

Occupational exposure limits : Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Workplace exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour (mg/m ³)	STEL 15 min (mg/m ³)	Comments
Distillates (petroleum), hydrotreated light		1200	-	
Morpholine	GB	36	72	Skin
Morpholine	EC	36	72	-
Nepheline syenite		10	-	MAC: DE, SV
dl-Limonene		140	-	MAC: NO

Derived no-effect level (DNEL) for workers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Morpholine	Dermal Inhalation	72 mg/m ³		36 mg/m ³	1,04 mg/kg bw/day 91 mg/m ³

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Morpholine	Dermal Inhalation	18 mg/m ³		3,2 mg/m ³	0,52 mg/kg bw/day 45 mg/m ³

	Oral	38 mg/kg bw	6,3 mg/kg bw/day
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Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
Morpholine	Water	0,1 mg/l	0,01 mg/l	
	Sediment	1,49 mg/kg	0,149 mg/kg	
	Intermittent water			0,28 mg/l
	STP			10 mg/l
	Soil			0,239 mg/kg

8.2. Exposure controls

Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.

Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.



- Body protection : Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345. Suitable material: nitril. Indication of permeation breakthrough time: 6 hours.
- Respiratory protection : Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140.
- Hand protection : Wear appropriate safety gloves in accordance with EN 374. Suitable material: nitril. ± 0,5 mm. Indication of permeation breakthrough time: 6 hours.
- Eye protection : Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES *

9.1. Information on basic physical and chemical properties

Appearance	: Liquid.	
Colour	: White.	
Odour	: Characteristic.	
Odour threshold	: Not known.	
pH	: 9,6	
Solubility in water	: Not soluble.	
Partition coefficient (n-octanol/water)	: Not known.	
Flash point	: 72 °C	Tag Closed Cup (ASTM D56).
Flammability (solid, gas)	: Not applicable.	Liquid. See flashpoint.
Auto ignition temperature	: 337,8 °C	
Boiling point/boiling range	: 100 °C	
Melting point/melting range	: < 0 °C	
Explosive properties	: None known.	Does not contain explosives.
Explosion limits (% in air)	: Not known.	Lower explosion limit in air (%): 0,6 (Distillates (petroleum), hydrotreated light)
		Upper explosion limit in air (%): 7
Oxidising properties	: Not applicable.	Does not contain oxidizing substances.
Decomposition temperature	: Not applicable.	
Viscosity (20°C)	: 200 - 2000 mm ² /sec	

Viscosity (40°C) : > 20 mm²/sec
Vapour pressure (20°C) : Not known.
Vapour density (20°C) : > 1 (air = 1)
Relative density (20°C) : 1,02 g/ml
Evaporation rate : < 1 (n-butyl acetate = 1)

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products : Not known.

SECTION 11 TOXICOLOGICAL INFORMATION

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11.1. Information on toxicological effects

No toxicological research has been carried out on this product.

Inhalation

Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 19 %. ATE: > 5 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. May cause headache, dizziness and a feeling of sickness.

Corrosion/irritation : Not classified - based on available data, the classification criteria are not met.

Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.

Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: 19 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.

Corrosion/irritation : Irritant. May cause redness.

Sensitisation : Not classified - based on available data, the classification criteria are not met.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

Corrosion/irritation : Irritant.

Ingestion

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: 12 %. ATE: > 2000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Aspiration : Viscous emulsion. Contains a substance/substances with an aspiration hazard. Emulsion may break after ingestion. If swallowed, if any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 38.3° C, shortness of breath, chest congestion or continued coughing or wheezing. Highly viscous liquid. Not classified - based on available data, the classification criteria are not met. After ingestion, at vomiting, risk of aspiration in the lungs.
- Corrosion/irritation : May cause a feeling of sickness, stomachache, vomiting and diarrhoea.
- Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.
- Reprotoxicity : Development: Not expected to be reprotoxic. Development: Not classified - Based on available data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
Distillates (petroleum), hydrotreated light	NOAEL (development) - estimate	500 mg/kg.d	Read across	Rat
	LD50 (oral) - estimate	> 5000 mg/kg bw	Read across	Rat
	Skin sensitisation - estimate	Not sensitizing	Read across	Guinea pig
	NOAEL (fertility) - estimate	1500 mg/kg.d	Read across	Rat
	Mutagenicity - estimate	Negative	Read across	Salmonella typhimurium
	Eye irritation - estimate	Non-irritant	Read across	Rabbit
	Skin irritation - estimate	Irritant	Read across	Rabbit
	Genotoxicity - estimate	Not genotoxic	Read across	Mouse
	NOAEL (oral) - estimate	750 mg/kg bw/d	Read across	Rat
	NOAEL (inhalation) - estimate	> 1000 mg/m3	Read across	Mouse
	NOEL (carcinogenicity) - estimate	Not carcinogenic	Read across	-----
	LC50 (inhalation) - estimate	> 5280 mg/m3	Read across	Rat
	LD50 (dermal) - estimate	> 2000 mg/kg bw	-----	Rabbit
	Morpholine	LD50 (oral)	1050 mg/kg bw	-----
LD50 (dermal)		500 mg/kg bw	-----	Rabbit
Skin sensitisation		Not sensitizing	OECD 406	Guinea pig
Skin irritation		Corrosive.	OECD 404	Rabbit
Eye irritation		Corrosive.	OECD 405	Rabbit
Genotoxicity - in vivo		500 mg/kg bw/d	-----	Chinese Hamster
NOEL (carcinogenicity, inh.)		> 543 mg/m3	-----	Rat
LC50 (inhalation)		8000 mg/m3	-----	Rat
NOAEL (development) - estimate		75 mg/kg.d	Read across	Rat
Oleic acid, compound with morpholine (1:1)		LD50 (oral) - estimate	> 2000 mg/kg bw	Read across
Fatty acids, tall-oil, compds. with morpholine	Skin irritation - estimate	Irritant		
	Eye irritation - estimate	Irritant		

Pine oil	NOAEL (development, oral)	600 mg/kg bw/d		
	Genotoxicity - in vivo	Not genotoxic		
	Genotoxicity - in vitro	Not genotoxic		
	Mutagenicity	Negative		
	LD50 (dermal)	400 mg/kg bw		Rabbit
	LC50 (inhalation)	3790 mg/m ³		Rat
	LD50 (oral)	> 1000 mg/kg bw	-----	Rat

SECTION 12 ECOLOGICAL INFORMATION *

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Harmful to aquatic organisms. Calculated LC50 (fish): 17 mg/l. Calculated EC50 (waterflea): 12 mg/l. Contains 12 % of components with unknown hazards to the aquatic environment. May form an oil film on the water surface causing a decline in oxygen content with possible adverse effects for aquatic organisms.

12.2. Persistence and degradability

Persistence – degradability : May cause long-term adverse effects in the aquatic environment. The surfactants contained in this preparation do not comply with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents. This product shall not be used in cleaners.

12.3. Bioaccumulative potential

Bioaccumulative potential : Contains bioaccumulating substances.

12.4. Mobility in soil

Mobility : Adsorbs to soil and has low mobility. Floats on water.

12.5. Results of PBT and vPvB ass

PBT/vPvB assessment : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

12.6. Other adverse effects

Other information : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
Distillates (petroleum), hydrotreated light	Ultimate aerobic biodegradation (%)	58,6 %	OECD 301 F	
	NOEC (fish) - estimate	0,098 mg/l.d		Oncorhynchus mykiss
	NOEC (waterflea) - acute	0,3 mg/l	OECD 202	Daphnia magna
	NOEC (fish)	2 mg/l	OECD 203	Oncorhynchus mykiss
	LC50 (fish) - estimate	> 2 mg/l	OECD 203	Oncorhynchus mykiss
	EC50 (waterflea) - estimate	1,4 mg/l	OECD 202	Daphnia magna
	IC50 (algae) - estimate	> 1 mg/l	OECD 201	Pseudokirchnerella subcapitata
	NOEC (waterflea) - chronic	0,48 mg/l.d	OECD 211	Daphnia magna
	Log P(ow)	> 6		
	BCF	537		
Pine oil	LC50 (fish)	18 mg/l		Oncorhynchus mykiss
	EC50 (waterflea)	24 mg/l		Daphnia magna

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

- Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues and non-empty pack as hazardous waste.
- Additional warning : None.
- European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.
- Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 TRANSPORT INFORMATION

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14.1. UN number

UN nr. : None.

14.2. UN proper shipping name

Transport name : Not regulated.

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class : This product is not classified according to ADR/RID/ADN.

IMDG (sea)

Class : This product is not classified according to IMDG.

Marine pollutant : No

IATA (air)

Class : This product is not classified according to IATA.

14.6. Special precautions for user

Other information : Country specific variations may apply.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

SECTION 15 REGULATORY INFORMATION

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

Community regulations : Regulation (EC) No 453/2010 (REACH), Regulation (EC) No 1272/2008 (CLP) and other regulations.

: This product is exempted from classification as "May be fatal if swallowed and enters airways" on basis of section 3.10.3.3.1.1. of Annex I of Regulation (EC) No 1272/2008.

15.2. Chemical safety assessment

Chemical safety assessment : Not applicable.

SECTION 16 OTHER INFORMATION

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16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EC) No 453/2010 dated 20 May 2010 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

Full text of H-phrases mentioned in section 3:

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Full text of hazard classes mentioned in section 3:

Flam. Liq. 3	: Flammable liquid, hazard category 3.
Skin Irrit. 2	: Skin irritation, category 2.
Eye Irrit. 2	: Eye irritation, category 2.
Skin Sens. 1	: Skin sensitization, category 1.
STOT SE 3	: Specific target organ toxicity after single exposure, category 3.
Asp. Tox. 1	: Aspiration hazard, category 1.
Aquatic Chronic 2	: Hazardous to the aquatic environment — Chronic category 2.

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	: Acute Toxicity Estimate
CLP	: Classification, Labeling & Packaging
CMR	: Carcinogenic, Mutagenic or toxic for Reproduction
EEC	: European Economic Community
IATA	: International Air Transport Association
IBC code	: International Bulk Chemical Code
IMDG	: International Maritime Dangerous Goods Code
LD50/LC50	: Lethal Dose/Concentration for 50% of a population
MAC	: Maximum Allowable Concentration
MARPOL	: International Convention for the Prevention of Pollution From Ships
NO(A)EL	: No Observed (Adverse) Effect Level
OECD	: Organisation for Economic Co-operation and Development
PBT	: Persistent, Bioaccumulative and Toxic
PC	: Chemical product category
PT	: Product type
REACH	: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	: Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	: Sewage Treatment Plant
SU	: Sector of Use
TWA/STEL	: Time-Weighted Average/Short Term Exposure Limit
UN	: United Nations
VOC	: Volatile Organic Compounds
vPvB	: Very Persistent and Very Bioaccumulative

Number format : "," used as decimal separator.



End of safety data sheet.