

\*AIRMAR certifies that the application of Foulfree™ coating on its transducers results in no loss in transducer performance.

**Date of revision**      2020-05-22, Version 2

## Section 1 - Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

<b>Product name</b>	Foulfree
<b>Catalog No.</b>	Foulfree kit: FF15K.

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

<b>Identified uses</b>	Protective coating for transducers mounted on boats.
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### 1.3 Details of the supplier of the Safety Data Sheet

<b>Supplier</b>	Propspeed International Ltd PO Box 83232 Edmonton Auckland New Zealand <a href="http://www.propspeed.com">www.propspeed.com</a>
<b>Telephone</b>	+64 9 524 1470
<b>Telefax</b>	+64 9 813 5246
<b>E-mail (competent person)</b>	info@propspeed.com

### 1.4 Emergency telephone number

<b>Emergency number</b> (24h/24 – 365 d/year)	+64 4 917 9888 (ChemCall)
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## Section 2 - Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008:

Hazard class	Hazard category	H-Code
Flammable liquids	Category 3	H226
Serious eye damage/eye irritation	Category 2	H319
Aspiration hazard	Category 1	H304

Carcinogenicity	Category 2	H351
Reproductive toxicity	Category 1 and sub-categories 1A and 1B	H360
Specific target organ toxicity after single exposure	Category 2	H371
Specific target organ toxicity after repeated exposure	Category 2	H373
Hazardous to the aquatic environment — Chronic hazard	Chronic toxicity category 3	H412

## 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

### Hazard pictograms:



**Signal word: Danger**

### Hazard statements:

#### [H-Code: Hazard information]

H226: Flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H319: Causes serious eye irritation.

H351: Suspected of causing cancer.

H360: May damage fertility or the unborn child.

H371: May cause damage to organs.

H412: Harmful to aquatic life with long lasting effects.

### Precautionary statements:

#### [P-Code: Safety information]

##### General

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

##### Prevention

P260: Do not breathe fume and vapours.

Response

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331: Do NOT induce vomiting.

P308 + P313: IF exposed or concerned: Get medical attention.

Elimination

P501: Dispose of contents/container to an approved waste disposal plant.

**Reduced labelling ( $\leq 125$  ml) according to Regulation (EC) No. 1272/2008.**

**Derogations as referred to in section 1.5.2.1. of Annex I.**

Hazard pictograms:



Signal word: Danger

Hazard statements:

H304: May be fatal if swallowed and enters airways.

H351: Suspected of causing cancer.

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Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.

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P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331: Do NOT induce vomiting.

P308 + P313: IF exposed or concerned: Get medical attention.

P501: Dispose of contents/container to an approved waste disposal plant.

## Section 3 - Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

#### Description of the mixture

Polydimethylsiloxane with alkoxy silane crosslinker.

## &lt;Hazardous ingredients&gt;

CAS No.	CE No.	Substance	Concentration %	Classification according to Regulation (EC) No. 1272/2008	
	REACH registration No.				
1330-20-7	215-535-7	Xylene Index REACH No. 601-022-00-9	5 - 10	Flam. Liq. 3	H226
	01-2119488216-32			Acute Tox. 4	H332
100-41-4	202-849-4	Ethylbenzene Index REACH No. 601-023-00-4	5 - 10	Acute Tox. 4	H312
	01-2119489370-35			Skin Irrit. 2	H315
96-29-7	202-496-6	2-Butanone, oxime Index REACH No. 616-014-00-0	0,1 - 1	Asp. Tox. 1	H304
	01-2119539477-28			STOT RE 2	H373
919-30-2	213-048-4	3-aminopropyltriethoxysilane Index REACH No. 612-108-00-0	0,1 - 1	Flam. Liq. 2	H225
	01-2119480479-24			Acute Tox. 4	H332
				STOT RE 2	H373
				Asp. Tox. 1	H304
				Carc. 2	H351
				Acute Tox. 4	H312
				Eye Dam. 1	H318
				Skin Sens. 1	H317
				Acute Tox. 4	H302
				Skin Corr. 1B	H314

## Section 4 - First aid measures

## 4.1 Description of first aid measures

## General information:

- Remove non-emergency personnel to safety.
- First aider: pay attention to self-protection.

## Following inhalation:

- Immobilize victim.
- If victim faints, lie down in a stable lateral position.
- Prevent hypothermia.
- Call a doctor/physician immediately and give the exact reference of the product and these instructions.

## Following skin contact:

- Remove contaminated clothing immediately.
- Wash skin immediately with soap and plenty of water.
- Shower immediately in case of significant contamination.
- In case of apparent skin change or pain, seek medical advice. Show these instructions and label if possible.

**Following eye contact:**

- Flush immediately with plenty of flowing water for 10 to 15 minutes. Hold eyelids apart to rinse the entire surface of the eyes and lids.
- Remove contact lenses if those can be easily removed.
- Seek medical attention if irritation persists.

**Following ingestion:**

- If victim is conscious, drink plenty of water in small sips.
- Do NOT induce vomiting.
- Call a doctor/physician immediately and give the exact reference of the product. Show these instructions and label if possible.

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

Headache, cough, irritation, breathing difficulties, spasm, etc.

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

Information is not available.

**Section 5 – Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media:**

Carbon dioxide, alcohol compatible/resistant foam, dry powder or sand.

- Remove safely flammable containers from danger zone.
- Use appropriate fire extinguisher.
- Attack fire in the direction of the wind.

**Unsuitable extinguishing media:**

Strong water jet.

**5.2 Special hazards arising from the substance or mixture**

Flammable liquid.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus and appropriate protective equipment.

## Section 6 - Accidental release measures

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

- Wear personal protective equipment (see section 8).
- Avoid contact with skin, eyes and clothing.
- Do NOT breathe vapour/spray.
- Do not allow to enter drains, surface and ground water (see section 13)
- Do not drain away with water.
- Collect spillage mechanically and dispose of in accordance with regulations.
- Or soak up spillage with absorbent material like diatomite and dispose of in accordance with regulations.
- Remove any viscous deposits with a cleaning product / soap solution or any other biodegradable detergent.

### 6.2 Environmental precautions

Do not allow to enter drains, surface and ground water.

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

Do not drain away with water. Collect spillage mechanically and dispose of in accordance with regulations. Remove any viscous deposits with a cleaning product / soap solution or any other biodegradable detergent.

### 6.4 Reference to other sections

Personal protective equipment: see section 8.

Disposal considerations: see section 13.

## Section 7 - Handling and storage

### 7.1 Precautions for safe handling

- Use only outdoors or in a well-ventilated area.
- Keep away from incompatible materials listed in section 10.
- Follow the general fire precautions indicated in the workplace.

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

- Keep containers tightly closed.
- Store in a cool and well-ventilated place.
- Ensure adequate ventilation of workplace and storage area.
- Protect from sunlight.
- Keep away from water and moisture.

**7.3 Specific end use(s)**

No specific use provided except for that mentioned in section 1.2.

**Section 8 - Exposure controls/personal protection****8.1 Control parameters**

Workplace exposure limits (WELs) for chemical substances established nationally:

- **UK:** EH40/2005 Containing the workplace exposure limits (WELs) for use with the Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended). Updated Fourth Edition 2020. Published with the permission of the Health and Safety Executive on behalf of the Controller of Her Majesty's Stationery Office.
- **IRE:** 2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulation (2001-2019). Published by the Health and Safety Authority.

And in the Community:

- **EU:** Directive 2000/39/EC. <https://osha.europa.eu/en/legislation/directives/commission-directive-2006-15-ec>

**Occupational exposure limit values (WELs)**

Component	Country /Region	TWA (1)		STEL (2)	
		ppm	mg.m <sup>-3</sup>	ppm	mg.m <sup>-3</sup>
Xylene	UK	50	220	100	441
	IRE	50	221	100	442
	EU	50	221	100	442
Ethylbenzene	UK	100	441	125	552
	IRE	100	442	200	884
	EU	100	442	200	884
2-Butanone, oxime	UK	-	-	-	-
	IRE	3	10	10	33
	EU	-	-	-	-
3-aminopropyltriethoxysilane	UK	-	-	-	-
	IRE	-	-	-	-
	EU	-	-	-	-

(1) TWA Time-weighted average (long-term exposure limit): a value in relation to an 8-hour time-weighted average reference period

(2) STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute reference period

## Derived No Effect Level (DNEL)

Component	Exposure	Workers			
		Acute / short-term Local Effects	Acute / short-term Systemic Effects	Long-term Local Effects	Long-term Systemic Effects
Xylene	Inhalation	442 mg/m <sup>3</sup>	442 mg/m <sup>3</sup>	221 mg/m <sup>3</sup>	221 mg/m <sup>3</sup>
	Dermal	-	-	-	212 mg/kg bw/day
Ethylbenzene	Inhalation	293 mg/m <sup>3</sup>	Low risk (no limit)	442 mg/m <sup>3</sup>	77 mg/m <sup>3</sup>
	Dermal	-	-	-	180 mg/kg bw/day
2-Butanone, oxime	Inhalation	-	-	3.33 mg/m <sup>3</sup>	9 mg/m <sup>3</sup>
	Dermal	-	2.5 mg/kg bw/day	-	1.3 mg/kg bw/day
3-aminopropyltriethoxysilane	Inhalation	-	59 mg/m <sup>3</sup>	-	59 mg/m <sup>3</sup>
	Dermal	-	8.3 mg/kg bw/day	-	8.3 mg/kg bw/day

Component	Exposure	General population			
		Acute / short-term Local Effects	Acute / short-term Systemic Effects	Long-term Local Effects	Long-term Systemic Effects
Xylene	Inhalation	260 mg/m <sup>3</sup>	260 mg/m <sup>3</sup>	65.3 mg/m <sup>3</sup>	65.3 mg/m <sup>3</sup>
	Dermal	-	-	-	125 mg/kg bw/day
	Oral	-	-	-	12.5 mg/kg bw/day
Ethylbenzene	Inhalation	-	Low risk (no limit)	-	15 mg/m <sup>3</sup>
	Dermal	-	-	-	-
	Oral	-	-	-	1.6 mg/kg bw/day
2-Butanone, oxime	Inhalation	-	-	2 mg/m <sup>3</sup>	2.7 mg/m <sup>3</sup>
	Dermal	-	1.5 mg/kg bw/day	-	780 µg/kg bw/day
	Oral	-	-	-	-
3-aminopropyltriethoxysilane	Inhalation	-	17.4 mg/m <sup>3</sup>	-	17.4 mg/m <sup>3</sup>
	Dermal	-	8.3 mg/m <sup>3</sup>	-	8.3 mg/m <sup>3</sup>
	Oral	-	-	-	-



## Predicted No-Effect Concentration (PNEC)

Component	Environmental protection objective	PNEC Value
Xylene	Freshwater	327 µg/l
	Intermittent releases (freshwater)	327 µg/l
	Sediment (freshwater)	12.46 mg/kg
	Marine water	327 µg/l
	Sediment (marine water)	12.46 mg/kg
	Soil	2.31 mg/kg
	Sewage treatment plant (STP)	6.58 mg/l
Ethylbenzene	Freshwater	100 µg/l
	Intermittent releases (freshwater)	100 µg/l
	Sediment (freshwater)	13.7 mg/kg
	Marine water	10 – 100 µg/l
	Sediment (marine water)	1.37 mg/kg
	Soil	2.38 mg/kg
	Sewage treatment plant (STP)	9.6 mg/l
2-Butanone, oxime	Freshwater	256 µg/l
	Intermittent releases (freshwater)	118 µg/l
	Sediment (freshwater)	-
	Marine water	-
	Sediment (marine water)	-
	Soil	-
	Sewage treatment plant (STP)	177 mg/l
3-aminopropyltriethoxysilane	Freshwater	330 µg/l
	Intermittent releases (freshwater)	3.3 mg/l
	Sediment (freshwater)	1.2 mg/kg
	Marine water	33 µg/l
	Sediment (marine water)	120 µg/kg
	Soil	50 µg/kg
	Sewage treatment plant (STP)	13 mg/l

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. When using, do not eat, drink or smoke. Wash hands thoroughly before breaks and after work. Avoid any exposure for pregnant women.

### 8.2.2 Personal protective equipment

#### Eye/face protection

Use tight fitting safety goggles or face shield.

### Hand protection

Protective gloves must be worn at all times.

Type of material (recommended for splash contact): Nitrile rubber protective gloves.

Material thickness: > 0.4 mm.

Breakthrough times of the glove material: 10-30 min.

Type of material (recommended for full contact): Butyl rubber protective gloves.

Material thickness: > 0.3 mm.

Breakthrough times of the glove material: >480 min.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the risk of cuts, abrasion and contact time. Warning: due to the many influencing factors (e.g. temperature), the duration of use of a chemical protective glove may be significantly shorter than the breakthrough times determined by the tests.

### Skin and body protection

Wear appropriate protective clothing.

### Respiratory protection

Use appropriate certified respirator when exposure limits are exceeded. Appropriate respiratory protection: respiratory protection device with full mask, in accordance to European standards like NF EN 136.

Recommended filter type: anti-gas filter ABEK (certain inorganic gas and vapour, organics and acids, ammoniac/amines) compliant with recognized standards like NF EN 14387.

When exposed to vapours/aerosols, use appropriate individual respiratory protection and clothing. Appropriate respiratory protection: respiratory protection device with full mask, in accordance to European standards like NF EN 136.

Recommended filter type: combined filter ABEK-P2 (certain inorganic gas and vapour, organics and acids, ammoniac/amines, particles) compliant with recognized standards like NF EN 14387.

Observe the maximum wearing times of respiratory protection devices and the instructions of the manufacturer.



### 8.2.3 Environmental exposure controls

Do not let product enter drains, surface and ground water.

## Section 9 – Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	liquid
Colour	colourless, transparent
Odour	solvent
Odour threshold	data not available
pH	not applicable
Melting point/freezing point	none
Boiling point and boiling range	136.2 – 144.4 °C
Flash point	28.2 °C
Evaporation rate	data not available
Flammability	not applicable
Explosive limits	lower limit: 1.1%, upper limit: 7%
Vapour pressure	1,333 Pa (32 °C)
Density	0.94 – 1.04 g/ml
Solubility	not applicable
Partition coefficient (n-octanol/water)	not applicable
Auto-ignition temperature	432 °C
Decomposition temperature	not applicable
Viscosity	500 – 800 mPa.s at 23 °C (Brookfield)
Molecular mass	not usable

## Section 10 – Stability and reactivity

### 10.1 Reactivity

No hazardous reaction known under normal handling and storage conditions.  
Other important information may be mentioned in other parts of this chapter.

### 10.2 Chemical stability

Stable under normal handling and storage conditions. Curation time: 5 - 60 min (20 °C)

### 10.3 Possibility of hazardous reactions

No risk of dangerous reactions under normal usage conditions.

### 10.4 Conditions to avoid

Keep away from heat and moisture.

**10.5 Incompatible materials**

Dihydrogen may be liberated when in contact with water, alcohols, acids and bases of certain metals, and thus create explosive gas in air. May react with strong oxidising agents.

**10.6 Hazardous decomposition products**

May form low molecular weight monomers such as CO and NO<sub>x</sub> and a release of dihydrogen.

**Section 11 – Toxicological information****11.1 Information on toxicological effects****A. COMPONENTS****Acute toxicity****[Xylene]**

LD50 (oral)	3,523 mg/kg (rat)
LC50 (inhalation)	29 mg/l/4h (rat)
LD50 (dermal)	12,126 mg/kg (lapin)

**[Ethylbenzene]**

LD50 (oral)	3,500 mg/kg (rat)
LC50 (inhalation)	17.2 mg/l/4h
LD50 (dermal)	15,433 mg/kg (rabbit)

**[2-Butanone, oxime]**

LD50 (oral)	2,326 mg/kg (rat)
LC50 (inhalation)	4.83 mg/l/4h (rat)
LD50 (dermal)	2,702 mg/kg (rat)

**[3-aminopropyltriethoxysilane]**

LD50 (oral)	1,780 mg/kg (rat)
LC50 (inhalation)	5 ppm - 6h (rat)
LD50 (dermal)	4,290 mg/kg (rabbit)

**B. MIXTURE****Acute toxicity**

Lethal dose (oral)	No specific data on mixture.
Lethal dose (dermal)	No specific data on mixture.
Lethal concentration (inhalation)	No specific data on mixture.

**Skin corrosion/irritation**

Conclusion/summary on mixture No specific data on mixture.

**Eye damage/irritation**

Conclusion/summary on mixture No specific data on mixture.

**Skin sensitization/Sensitization to the respiratory tract**

Conclusion/summary on mixture No specific data on mixture.

**Germ cell mutagenicity**

Conclusion/summary on mixture No specific data on mixture.

**Carcinogenicity**

Conclusion/summary on mixture No specific data on mixture.

**Reproductive toxicity**

Conclusion/summary on mixture No specific data on mixture.

**Specific target organ toxicity - single exposure**

Conclusion/summary on mixture No specific data on mixture.

**Specific target organ toxicity - repeated exposure**

Conclusion/summary on mixture No specific data on mixture.

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**11.2 Further information**

Other adverse effects: central nervous system depression, nausea, migraine, vomiting, ataxia, shivers. Other dangerous properties cannot be excluded.

**Section 12 – Ecological information****12.1 Toxicity****A. COMPONENTS**

Xylene	Fish ( <i>Oncorhynchus mykiss</i> ) LC50 – 2.60 mg/l – 96h – static Algae ( <i>Pseudokirchneriella subcapitata</i> ) – EC50 – 4.36 mg/l – 73h - static Bacterium ( <i>Pseudomonas putida</i> ) – EC50 – 43 mg/l – 5.75h - static
Ethylbenzene	Fish ( <i>Oncorhynchus mykiss</i> ) LC50 – 4.20 mg/l – 96h Daphnia ( <i>Daphnia magna</i> ) – EC50 – 1.8-2.4 mg/l – 48h - static Algae ( <i>Skeletonema costatum</i> ) – EC50 – 4.9 mg/l – 72h - static
2-Butanone, oxime	Fish ( <i>Oryzias latipes</i> ) LC50 – >100 mg/l – 96h – semi-static Daphnia ( <i>Daphnia magna</i> ) – EC50 – 201 mg/l – 48h - static Algae ( <i>Scenedesmus capricornutum</i> ) – EC50 – 11.8 mg/l – 72h - static
3-aminopropyltriethoxysilane	Zebra fish ( <i>Danio rerio</i> ) LC50 – 934 mg/l – 96h – semi-static Daphnia ( <i>Daphnia magna</i> ) – EC50 – 331 mg/l – 48h - static Algae ( <i>Desmodesmus subspicatus</i> ) – EC50r – >1,000 mg/l – 72h – static

	Bacterium ( <i>Pseudomonas putida</i> ) – EC50 – 43 mg/l – 5.75h - static
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**B. MIXTURE**

No data available.

**12.2 Persistence and degradability****A. COMPONENTS**

Xylene	No data available.
Ethylbenzene	Aerobic biodegradability – Exposure time 28d Result: 70-80%: Readily biodegradable
2-Butanone, oxime	No data available.
3-aminopropyltriethoxysilane	Aerobic biodegradability – Exposure time 28d Result: 67%: not readily biodegradable

**B. MIXTURE**

No data available.

**12.3 Bioaccumulative potential****A. COMPONENTS**

Xylene	Bioconcentration factor (BCF) – 25.9
Ethylbenzene	Bioconcentration factor (BCF) – 110 l/kg
2-Butanone, oxime	Cyprinus carpio (Carp) – 42d – 2 mg/l Bioconcentration factor (BCF) – 0.5 – 0.6
3-aminopropyltriethoxysilane	Cyprinus carpio (Carp) – 8 weeks – 5 mg/l Bioconcentration factor (BCF) – 3.4

**B. MIXTURE**

No data available.

**12.4 Mobility in soil****A. COMPOSANTS**

Xylene	No data available.
Ethylbenzene	No data available.
2-Butanone, oxime	No data available.
3-aminopropyltriethoxysilane	No data available.

**B. MIXTURE**

No data available.

**12.5 Results of PBT & vPvB assessment****A. COMPONENTS**

Xylene	Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB).
Ethylbenzene	

2-Butanone, oxime	
3-aminopropyltriethoxysilane	

**B. MIXTURE**

No data available.

**12.6 Other adverse effect**

None.

**Section 13 – Disposal considerations**

**13.1 Waste treatment methods**

Dispose of product and container as hazardous waste. Dispose in accordance with European directives on waste and hazardous waste. Dispose of in accordance with local regulations. Keep in original container. Handle empty containers carefully, as residual vapours are flammable.




**Product/packaging disposal**

Dispose of contents and container to an approved waste disposal plant for hazardous waste. Do not release to sewage system. Empty containers contain product residue (liquid or vapor) and may be dangerous. Handle contaminated packages in the same way as the substance itself. Keep product and empty container away from heat and ignition sources.

**Waste Disposal Legislation Ref.No. (EC)**

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.

**Section 14 – Transport information**

	ADR/RID	IMDG	IATA
<b>14.1 UN number</b>	UN1263	UN1263	UN1263
<b>14.2 UN proper shipping name</b>	PAINT	PAINT	PAINT
<b>14.3 Transport hazard class(es)</b>	 3	 3	 3
<b>14.4 Packing group</b>	III	III	III
<b>14.5 Environmental hazard</b>	No	No	No

Hazchem code: -

**14.6 Special precautions for user**

Transport with local users: always transport in packaging that is correct and secure. Ensure that persons transporting the product are aware of the measures to be taken if an accident occurs or in case of accidental release.

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code**

Not available.

**Section 15 – Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Observe EU and national regulations. For labelling information, please refer to section 2.

Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances (Seveso III): Not applicable.

**15.2 Chemical Safety Assessment**

No chemical safety assessment has been carried out by the manufacturer for this product.

**Section 16 – Other information****Product**

The information provided in this document is based on our knowledge at the date of its publication. The properties of the product described do not constitute a warranty in the legal sense of the term. The provision of this document does not release the purchaser of the product from his responsibility to comply with legislations and regulations in force for this product. This statement applies for the resale and distribution of the product, or of substances or goods containing this product, in other jurisdictions and having regard to the industrial and commercial property rights of third parties. If the product described is transformed or mixed with other substances or materials, the information contained in this document may not be valid for the new product thus manufactured, unless explicitly mentioned. In case of repackaging of the product, the customer is required to provide the required safety information.

**Legend**

CAS	Chemical Abstracts Service
ppm	part per million
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
EC50	Effective Concentration 50%



vPvB	very Persistent and very Bioaccumulative
WEL	Workplace Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic
DNEL	Derived No-Effect Level
PNEC	Predicted No-Effect Concentration
RECh	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemical
CLP	Regulation on Classification, Labelling and Packaging of substances and mixtures
ADR/RID	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
Flam. Liq.	Flammable liquid
Acute Tox.	Acute toxicity
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure
Asp. Tox.	Aspiration hazard
Carc.	Carcinogenicity
Eye Dam.	Serious eye damage/eye irritation
Skin Sens.	Respiratory/skin sensitization
Skin Corr.	Skin corrosion