

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

1.1. Product identifier

Product form : Mixture
Trade name : MINERAL CUTTING OIL
Product code : 110101 /110105 / 110120
Type of product : Use in lubricants
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Industrial use
Function or use category : Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

VIRAX SAS
39, quai Marne - CS 40197
FR- 51206 EPERNAY Cedex
T +33 (0)3 26 59 56 56 - F +33 (0)3 26 59 56 60
hse@virax.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	NHS 111/NHS 24/NHS Direct		111 0845 4647	or call a doctor

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Signal word (CLP) : -
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP) : P273 - Avoid release to the environment.
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate [TPP≥2.5<25%]	EC-No.: 700-990-0 REACH-no: 01-2119519251-50	≥ 0,25 – < 2,5	Aquatic Chronic 2, H411
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	CAS-No.: 95-38-5 EC-No.: 202-414-9 REACH-no: 01-2119777867-13	≥ 0,25 – < 1	Acute Tox. 4 (Oral), H302 (ATE=1265 mg/kg bodyweight) Skin Corr. 1C, H314 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)
Reaction products of fatty acids, C16-18, C18 unsatd. with Amines, polyethylenepoly-, triethylenetetramine fraction and 3-(C9-C15, C12 rich, alk-1-enyl)dihydro-2,5-furandione	EC-No.: 947-263-6 REACH-no: 01-2120761103-66	≥ 0 – < 1	Skin Irrit. 2, H315 Repr. 2, H361fd Aquatic Chronic 4, H413

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Immediately remove contaminated or damp clothing. In case of doubt or persistent symptoms, consult always a physician.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor. Allow affected person to breathe fresh air.
First-aid measures after skin contact	: Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period while holding the eyelids wide open. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects	: Can occur: gastrointestinal disturbance.
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4.3. Indication of any immediate medical attention and special treatment needed

Depending on the degree of exposure, periodic medical surveillance is required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Preferably: alcohol foam. Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon monoxide. Carbon dioxide.
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5.3. Advice for firefighters

Firefighting instructions	: Cool down the containers/equipment exposed to heat with a water spray. Ensure that there is no direct contact between the water and the product.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: Recover waste liquids for recycling/re-use. Do not discharge into drains or the environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Evacuate area. Evacuate unnecessary personnel. Caution : this product can cause the floor to be slippery.
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6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Stop release. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if liquid enters sewers or public waters. Do not allow product to spread into the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13. Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with the skin and the eyes. PREVENT GENERATION OF MISTS.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a closed container. Keep container closed when not in use. Store in a well-ventilated place. Keep cool.
Information on mixed storage	: Do not store near oxidizing agents. Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

See Section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

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8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	2 mg/kg bodyweight/day
Acute - systemic effects, inhalation	14 mg/m³
Long-term - systemic effects, dermal	0,06 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,46 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0,00003 mg/l
PNEC aqua (marine water)	0,000003 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,376 mg/kg dw
PNEC sediment (marine water)	0,0376 mg/kg dw
PNEC (Soil)	
PNEC soil	0,075 mg/kg dw
PNEC (STP)	
PNEC sewage treatment plant	0,27 mg/l
Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate [TPP≥2.5<25%]	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	10,75 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	7,58 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	5375 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1,87 mg/m³
Long-term - systemic effects, dermal	5375 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,000798 mg/l
PNEC aqua (marine water)	0,00008 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,96 mg/kg dw
PNEC sediment (marine water)	0,09 mg/kg dw
PNEC (Soil)	
PNEC soil	0,252 mg/kg dw
Reaction products of fatty acids, C16-18, C18 unsatd. with Amines, polyethylenepoly-, triethylenetetramine fraction and 3-(C9-C15, C12 rich, alk-1-enyl)dihydro-2,5-furandione	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	1,04 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3,72 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0,625 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1,1 mg/m³
Long-term - systemic effects, dermal	0,625 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,496 mg/l
PNEC aqua (marine water)	0,0496 mg/l
PNEC aqua (intermittent, freshwater)	4,96 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	3772831 mg/kg dw
PNEC sediment (marine water)	377283,1 mg/kg dw

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PNEC (Soil)	
PNEC soil	3935352 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	5 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Only experienced and properly instructed persons should handle gases under pressure.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Use eye protection according to EN 166, designed to protect against liquid splashes. Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves. Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Time of penetration is to be checked with the glove producer

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Protective gloves	Nitrile rubber (NBR), Chloroprene rubber (CR)	6 (> 480 minutes)	≥ 0,4		EN ISO 374

Other skin protection

Materials for protective clothing:

Take off contaminated clothing and wash it before reuse. Impermeable protective equipment. Where there is a possibility of leakage, wear the secure non-slip shoes.

8.2.2.3. Respiratory protection

Respiratory protection:

Ensure good ventilation of the work station. Do not breathe gas, fumes, vapour or spray. Wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Always wash hands after handling the product.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Transparent.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not applicable
Explosive properties	: Product is not explosive.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 190 °C
Auto-ignition temperature	: The product is not easily ignited
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 33 mm ² /s 40°C
Solubility	: Poorly soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 0,89 g/cm ³
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)

LD50 oral rat	1265 mg/kg (OECD 401 method)
LD50 dermal rabbit	> 2000 mg/kg

Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate [TPP≥2.5<25%]

LD50 oral rat	> 5000 mg/kg bodyweight (OECD 401 method)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

MINERAL CUTTING OIL

Viscosity, kinematic	33 mm²/s 40°C
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11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Harmful to aquatic life with long lasting effects.
Ecology - water	: Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)

LC50 - Fish [1]	0,3 mg/l (OECD 203 method)
EC50 - Crustacea [1]	0,136 mg/l (OECD 202 method)
EC50 72h - Algae [1]	0,03 mg/l (OECD 201 method)

Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate [TPP≥2.5<25%]

LC50 - Fish [1]	42,3 mg/l Pimephales promelas
LC50 - Fish [2]	3,4 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	3,9 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	> 1,7 mg/l Pseudokirchneriella subcapitata
EC50 72h - Algae [2]	1,4 mg/l Pseudokirchneriella subcapitata

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**Reaction products of fatty acids, C16-18, C18 unsatd.
with Amines, polyethylenepoly-, triethylenetetramine
fraction and 3-(C9-C15, C12 rich, alk-1-enyl)dihydro-2,5-
furandione**

LC50 - Fish [1]	> 1000 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	496 mg/l Pseudokirchneriella subcapitata
NOEC chronic fish	1000 mg/l (OECD 203 method)
NOEC chronic algae	318 mg/l (OECD 201 method)

12.2. Persistence and degradability

MINERAL CUTTING OIL	
Persistence and degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations. Ensure all national/local regulations are observed.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose of this material and its container at hazardous or special waste collection point. Do not allow into drains or water courses.
European List of Waste (LoW) code	: Code Waste to be completed according to the use and the list of Decision 2000/352 / EC 12 01 07* - mineral-based machining oils free of halogens (except emulsions and solutions)
HP Code	: HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

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14.4. Packing group

Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
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14.5. Environmental hazards

Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
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No supplementary information available

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)

Reference code	Applicable on	Entry title or description
3(b)	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	MINERAL CUTTING OIL ; 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; Reaction mass of p-t-butylphenyldiphenyl phosphate and bis(p-t-butylphenyl)phenyl phosphate and triphenyl phosphate [TPP≥2.5<25%]	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

VOC content : 0 %

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Directive 2012/18/EU (SEVESO III)

Seveso Additional information : Not relevant

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. National regulations

Ensure all national/local regulations are observed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	REACH Candidate List substances (SDS)	Added	
	Seveso Additional information	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.1	Adverse physicochemical, human health and environmental effects	Modified	
2.2	Hazard statements (CLP)	Modified	
2.2	Precautionary statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
4.1	First-aid measures after inhalation	Modified	
4.1	First-aid measures after skin contact	Modified	
4.1	First-aid measures general	Modified	
4.2	Symptoms/effects	Modified	
4.3	Other medical advice or treatment	Modified	
5.2	Hazardous decomposition products in case of fire	Modified	
6.1	Protective equipment	Added	
6.2	Environmental precautions	Modified	
6.3	Methods for cleaning up	Modified	
6.4	Reference to other sections (8, 13)	Modified	
7.1	Precautions for safe handling	Modified	
7.2	Storage conditions	Modified	
7.2	Prohibitions on mixed storage	Modified	
8.2	Respiratory protection	Modified	
11.1	Reason for no classification	Added	
12.1	Ecology - general	Modified	
13.1	H code	Modified	
15.1	REACH Annex XVII	Modified	
16	Abbreviations and acronyms	Modified	
16	Data sources	Modified	

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
IARC	International Agency for Research on Cancer
LC50	Median lethal concentration
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
SDS	Safety Data Sheet
IATA	International Air Transport Association

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IMDG	International Maritime Dangerous Goods
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative
CAS-No.	Chemical Abstract Service number
VOC	Volatile Organic Compounds
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
ThOD	Theoretical oxygen demand (ThOD)
ED	Endocrine disrupting properties
EN	European Standard
N.O.S.	Not Otherwise Specified
EC-No.	European Community number
TRGS	Technical Rules for Hazardous Substances
BLV	Biological limit value
OEL	Occupational Exposure Limit
IOELV	Indicative Occupational Exposure Limit Value
WGK	Water Hazard Class

Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 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 . 17 ATP Inserted / Updated.
Training advice	: Normal use of this product shall imply use in accordance with the instructions on the packaging. Follow advice on use, storage, maintenance and replacement.
Other information	: Ensure all national/local regulations are observed. DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
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.

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H413	May cause long lasting harmful effects to aquatic life.
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Aquatic Chronic 3	H412	Calculation method
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Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.