SAFETY DATA SHEET ACCORDING TO REGULATION (EC) 1907/2006

Product name: MAPETROL PREMIUM C2 0W-30

Creation date: 18.08.2022, Revision: 07.12.2023, version: 1.1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name
MAPETROL PREMIUM C2 0W-30

Product code
MAP0349, MAP0032, MAP0043, MAP0107, MAP0108, MAP01

https://my.chemius.net/p/Uk9y4D/en/pd/en

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

Relevant identified uses
Motor oil.

Uses advised against
No information.

1.3 Details of the supplier of the safety data sheet

Supplier
Mapetrol d.o.o.
Linhartova ulica 17a
2000 Maribor, Slovenia
+38622302880
lab@mapetrol.si

1.4 Emergency Telephone Number

Emergency
112

Supplier
+38622302880

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)
According to the regulation, the chemical is not classified as hazardous.

2.2 Label elements

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

EUH208 Contains molybdenum polysulphide long chain alkyl dithiocarbamate complex, C14-16-18 alkyl phenol. May produce an allergic reaction.
EUH210 Safety data sheet available on request.

2.3 Other hazards

PBT/vPvB
No information.

Endocrine disrupting properties
The product does not contain substances with the potential for endocrine disorders.

Additional information
No information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
For mixtures see 3.2.

3.2 Mixtures

Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
dec-1-ene, homopolymer, hydrogenated	68037-01-4 500-183-1 - 01-2119486452-34	5-15	Asp. Tox. 1; H304	/	/
Bis(nonylphenyl) amine	36878-20-3 253-249-4 - 01-2119488911-28	1-1.99	Aquatic Chronic 4; H413	/	/
zinc bis (O-(6-methylheptyl)bis (O-sec-butyl))bis (dithiophosphate)	93819-94-4 298-577-9 - 01-2119543726-33	1-1.49	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411	Skin Irrit. 2; H315; C ≥ 6.25% Eye Dam. 1; H318; C ≥ 12.5% Eye Irrit. 2; H319; 10% ≤ C < 12.5%	/
molybdenum polysulphide long chain alkyl dithiocarbamate complex	- 457-320-2 - 01-0000019337-66	0.1-0.99	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 3; H412	/	/
C14-16-18 alkyl phenol	1190625-94-5 931-468-2 - 01-2119498288-19	0.1-0.49	Skin Sens. 1; H317 STOT RE 2; H373	/	/

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Following inhalation
Leave contaminated area - breathe fresh air. If symptoms develop and persist, seek medical attention.

Following skin contact
Take off all contaminated clothing. Wash affected skin areas immediately with plenty of water and soap. If symptoms develop and persist, seek medical attention.

Following eye contact
Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

Following ingestion
Do not induce vomiting! Rinse mouth thoroughly with water. Immediately consult a doctor. Show the physician the safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation
Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation. Coughing, sneezing, nasal discharge, labored breathing.

Following skin contact
Contact with skin may cause irritation (redness, itching).

Following eye contact
Contact with eyes can cause irritation (redness, tearing, pain).

Following ingestion
May cause nausea/vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

No information.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media
Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products
In case of a fire toxic gases can be generated; do not inhale gases/smoke.

5.3 Advice for firefighters

Protective actions
In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray. If possible remove containers from endangered area.

Special protective equipment for fire-fighters
Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

Additional information
No information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment
Use personal protective equipment (Section 8).

Precautionary measures
Ensure adequate ventilation.

Emergency procedures
No information.

For emergency responders
Use personal protective equipment. High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

For containment
No information.

For cleaning up
Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Clean contaminated area with water and detergent.

Other information
No information.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire
Ensure adequate ventilation.

Measures to prevent aerosol and dust generation
Ensure good ventilation and extraction.

Measures to protect the environment
No information.

Other measures
No information.

Advice on general occupational hygiene
Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin and eyes. Avoid exposing.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions
Keep in tightly closed container. Store in a dry, cool and well-ventilated area, away from incompatible materials. Keep away from food, drink and animal feeding stuffs. Store at: ≤ 40°C.

Packaging materials
No information.

Requirements for storage rooms and vessels
Close opened containers after use. Put the containers upright to prevent from leaking.

Storage class
No information.

Further information on storage conditions
No information.

7.3 Specific end use(s)

Recommendations
No information.

Industrial sector specific solutions
No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values

Name	mg/m^3	ml/m^3	Short-term value mg/m^3	Short-term value ml/m^3	Remark	Biological Tolerance Values
Molybdenum compounds (as Mo) soluble compounds	5	/	10	/	/	/

Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product

No information.

For components

No information.

PNEC values

For product

No information.

For components

No information.

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke while working. Avoid contact with eyes and skin. Do not breathe vapours/aerosols.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

Personal protective equipment

Eye and face protection

Safety glasses with side protection (BS EN ISO 16321-1:2022).

Hand protection

Protective gloves (BS EN ISO 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately.

Appropriate materials

Material	Thickness	Penetration Time	Remark
nitrile rubber	> 0.35 mm	> 480 min	/

Skin protection

No requirements under normal use conditions. With excessive exposure wear protective working clothing (overalls and boots). Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345:2022).

Respiratory protection

Not needed under normal use and adequate ventilation. In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (BS EN 136) with filter A2-P2 (BS EN 14387).

Thermal hazards
No information.

Environmental exposure controls
Substance/mixture related measures to prevent exposure
No information.

Instruction measures to prevent exposure
No information.

Organisational measures to prevent exposure
No information.

Technical measures to prevent exposure
No information.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state
liquid

Colour
brown

Odour
characteristic

Important health, safety and environmental information

Odour threshold	No information.
Melting point/Freezing point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	> 200 °C (ASTM D92)
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	No information.
Viscosity	kinematic: 52 mm^2/s at 40 °C
Solubility	Water: slight
Partition coefficient	No information.
Vapour pressure	No information.
Density and/or relative density	Density: 842 kg/m^3 at 15 °C
Relative vapour density	No information.
Particle characteristics	No information.

9.2 Other information

Explosive properties	No information.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

The product is stable under recommended storage and handling conditions.

10.4 Conditions to avoid

Not known.

10.5 Incompatible materials

Strong oxidising agents.
Acids.
Bases.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

SECTION 11: TOXICOLOGICAL INFORMATION

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

(a) Acute toxicity

For components

Name	Exposure route	Type	Species	Time	value	Method	Remark
dec-1-ene, homopolymer, hydrogenated	oral	LD_{50}	rat	/	> 5000 mg/kg	/	/
dec-1-ene, homopolymer, hydrogenated	dermal	LD_{50}	rat	/	> 2000 mg/kg	/	/
dec-1-ene, homopolymer, hydrogenated	inhalation (dusts/mists)	LC_{50}	rat	4 h	> 5.2 mg/l	/	/
molybdenum polysulphide long chain alkyl dithiocarbamate complex	oral	LD_{50}	rat	/	> 2000 mg/kg bw	OECD 425	/
molybdenum polysulphide long chain alkyl dithiocarbamate complex	dermal	LD_{50}	rat	/	> 2000 mg/kg	OECD 402	/
Bis(nonylphenyl) amine	oral	LD_{50}	rat	/	> 5000 mg/kg	OECD 401	/
Bis(nonylphenyl) amine	dermal	LD_{50}	rat	/	> 2000 mg/kg	OECD 402	/
zinc bis (O-(6-methylheptyl)bis (O-sec-butyl))bis (dithiophosphate)	oral	LD_{50}	rat	/	2600 mg/kg	67/548/EEC; Annex V	/
zinc bis (O-(6-methylheptyl)bis (O-sec-butyl))bis (dithiophosphate)	dermal	LD_{50}	rabbit	/	> 3160 mg/kg	OECD 402	/

zinc bis (O-(6-methylheptyl)bis (O-sec-butyl))bis (dithiophosphate)	inhalation	LC_{50}	rat	1 h	> 2 mg/l	OECD 403	Read-across

Additional information

The product is not classified as acutely toxic.

(b) Skin corrosion/irritation

No information.

Additional information

The product is not classified as irritating to skin and eyes.

(c) Serious eye damage/irritation

No information.

(d) Respiratory or skin sensitisation

For components

Name	Exposure route	Species	Time	result	Method	Remark
molybdenum polysulphide long chain alkyl dithiocarbamate complex	dermal	guinea pig	/	Sensitizing.	EPA OPPTS 870.2600	/

Additional information

The product is not classified as sensitising.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

No information.

(i) STOT-repeated exposure

For components

Name	Exposure route	Type	Species	Time	Exposure	organ	value	result	Method	Remark
C14-16-18 alkyl phenol	/	/	/	/	/	/	/	May cause damage to organs through prolonged or repeated exposure.	/	/

Additional information

Not classified for subchronic toxicity.

(j) Aspiration hazard

No information.

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Other information

No information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
dec-1-ene, homopolymer, hydrogenated	LC_{50}	> 1000 mg/L	96 h	fish	*Oncorhynchus mykiss*	/	/
dec-1-ene, homopolymer, hydrogenated	LC_{50}	> 750 mg/L	96 h	fish	*Pimephales promelas*	/	/
dec-1-ene, homopolymer, hydrogenated	EC_{50}	190 mg/L	48 h	crustacea	*Daphnia magna*	/	/
dec-1-ene, homopolymer, hydrogenated	NOELR	1000 mg/L	72 h	algae	*Scenedesmus capricornutum*	OECD 201	/
molybdenum polysulphide long chain alkyl dithiocarbamate complex	EC_{50}	14 mg/L	72 h	algae	*Selenastrum capricornutum*	OECD 201	/
molybdenum polysulphide long chain alkyl dithiocarbamate complex	EL_{50}	50 mg/L	48 h	crustacea	*Daphnia magna*	OECD 202	/
molybdenum polysulphide long chain alkyl dithiocarbamate complex	LL_{50}	94.8 mg/L	96 h	fish	*Oncorhynchus mykiss*	OECD 203	/
Bis(nonylphenyl) amine	LC_{50}	> 100 mg/L	96 h	fish	*Danio rerio*	OECD 203	/
Bis(nonylphenyl) amine	EC_{50}	> 100 mg/L	/	crab	*Daphnia magna*	OECD 202	/
Bis(nonylphenyl) amine	EC50	> 100 mg/L	72 h	algae	*Desmodesmus subspicatus*	OECD 201	/
zinc bis (O-(6-methylheptyl)bis (O-sec-butyl))bis (dithiophosphate)	LC_{50}	4.5 mg/L	96 h	fish	*Oncorhynchus mykiss*	OECD 203	/
zinc bis (O-(6-methylheptyl)bis (O-sec-butyl))bis (dithiophosphate)	EC_{50}	5.4 mg/L	48 h	crustacea	*Daphnia magna*	OECD 202	/
zinc bis (O-(6-methylheptyl)bis (O-sec-butyl))bis (dithiophosphate)	EC_{50}	2.1 mg/L	72 h	algae	*Selenastrum capricornutum*	OECD 201	/

Chronic (long-term) toxicity

For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
molybdenum polysulphide long chain alkyl dithiocarbamate complex	NOEC	100 mg/l	21 days	crustaceans	*Daphnia magna*	OECD 211	/

molybdenum polysulphide long chain alkyl dithiocarbamate complex	NOEC	4.05 mg/l	/	algae	/	/	/

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

Name	Type	Rate	Time	Evaluation	Method	Remark
Bis(nonylphenyl) amine	-	/	/	not readily biodegradable	/	/
Bis(nonylphenyl) amine	Biodegradation in water	1 %	28 days	/	/	/
zinc bis (O-(6-methylheptyl)bis (O-sec-butyl))bis (dithiophosphate)	biodegradability	1.5 %	28 days	/	OECD 301 B	/

Additional information

Not easily biodegradable.

12.3 Bioaccumulative potential

Partition coefficient

For components

Name	Media	value	Temperature °C	pH	Concentration	Method
molybdenum polysulphide long chain alkyl dithiocarbamate complex	octanol-water (log Kow)	5.1	/	/	/	/
Bis(nonylphenyl) amine	Octanol-water (log Pow)	> 7.6	/	/	/	/
zinc bis (O-(6-methylheptyl)bis (O-sec-butyl))bis (dithiophosphate)	Octanol-water (log Pow)	0.9	23	/	/	/

Bioconcentration factor (BCF)

For components

Name	Species	organism	value	Duration	Evaluation	Method	Remark
molybdenum polysulphide long chain alkyl dithiocarbamate complex	BCF	*Cyprinus carpio*	88	/	/	OECD 305	0.05 mg/l
Bis(nonylphenyl) amine	bioaccumulation	/	/	/	Potentially bioaccumulative.	/	/

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

For components

Name	Type	Criterion	value	Evaluation	Method	Remark
Bis(nonylphenyl) amine	Soil	/	/	Absorbed into the ground.	/	/
zinc bis (O-(6-methylheptyl)bis (O-sec-butyl))bis (dithiophosphate)	Soil	/	/	Adsorbs into the soil.	/	/

Additional information

Insoluble in water.

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

12.7 Other adverse effects

No information.

12.8 Additional information

For product

Water hazard class (WGK): 3 (Self-assessment), very hazardous for water. Do not allow to reach ground water, water courses or sewage system.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW

No information.

Packaging

Deliver completely emptied containers to approved waste disposal authorities.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN

14.1 UN number or ID number			
Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.
14.2 UN proper shipping name			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.3 Transport hazard class(es)			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.4 Packing group			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities Not given/not applicable	Limited quantities Not given/not applicable		Limited quantities Not given/not applicable
14.7 Maritime transport in bulk according to IMO instruments			
	Not given/not applicable		

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

not applicable

Ingredients according to Regulation (EC) No 648/2004 on detergents

No information.

Special instructions

Water hazard class 1 (self-assessment): slightly hazardous for water. It does not contain substances that are subjected to the REACH Annex XVII restrictions. SVHC (substance of very high concern) Candidate list: The product does not contain substances on the SVHC candidate list. List of substances subject to authorisation (REACH, Annex XIV): none. Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals: none listed. Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June 2019: Does not contain substances, which are persistent organic pollutants.
It does not contain substances that are subject to the Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Indication of changes

2.1 Classification of the substance or mixture 2.2 Label elements 2.3 Other hazards 3.2 Mixtures 4.1 Description of first aid measures 6.3 Methods and material for containment and cleaning up 7.2 Conditions for safe storage, including any incompatibilities 8.2 Exposure controls 9.1 Information on basic physical and chemical properties 9.2 Other information 10.5 Incompatible materials 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 12.1 Toxicity 12.3 Bioaccumulative potential 12.6 Endocrine disrupting properties 12.7 Other adverse effects 14. Transport information 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Key literature references and sources for data

No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance

PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.



- ☑ Provided correct labelling of the product
- ☑ Compliance with the local legislation
- ☑ Provided correct classification of the product
- ☑ Provided adequate transport data

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The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.