

Mirka (UK) Ltd  
MK4 1GA Milton Keynes

Date printed 02.01.2023, Revision 22.12.2022

Version 02. Supersedes version: 01

Page 1 / 13

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

### 1.1 Product identifier

**Polarshine Marine Pro Shield**  
**UFI: DEQE-C84W-C00C-TCFP**

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

#### 1.2.1 Relevant uses

Corrosion protection

#### 1.2.2 Uses advised against

None known.

### 1.3 Details of the supplier of the safety data sheet

#### Company

Mirka (UK) Ltd  
Saxon House, Shirwell Crescent, Furzton Lake  
MK4 1GA Milton Keynes / GREAT BRITAIN  
Phone +44 (0)1908 866100  
Homepage [www.mirka.com](http://www.mirka.com)  
E-mail [sales@mirka.com](mailto:sales@mirka.com)

#### Address enquiries to

#### Technical information

[sales@mirka.com](mailto:sales@mirka.com)

#### Safety Data Sheet

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de) (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

### 1.4 Emergency telephone number

#### Advisory body

For Chemical Emergency: spill, leak, fire, exposure or accident call CHEMTREC day or night:  
Within USA and Canada: +1 800 424 9300; Outside USA and Canada: +1 703 527 3887  
(collect calls accepted)  
CHEMTREC UK: +(44)-870-8200418 (English)  
CHEMTREC Ireland (Dublin): +(353)-19014670 (English, Irish Gaelic)  
Multilingual response for emergency calls only. Non-emergency calls cannot be serviced at these numbers.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.

### 2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

#### Hazard pictograms



#### Signal word

DANGER

#### Contains:

Hydrocarbons, C10-C13, n-alkanes, <2 % aromatics

#### Hazard statements

H304 May be fatal if swallowed and enters airways.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor.  
P331 Do NOT induce vomiting.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/national regulation.

#### Special labelling

EUH066 Repeated exposure may cause skin dryness or cracking.

Mirka (UK) Ltd  
MK4 1GA Milton Keynes

Date printed 02.01.2023, Revision 22.12.2022

Version 02. Supersedes version: 01

Page 2 / 13

### 2.3 Other hazards

<b>Human health dangers</b>	Has a degreasing effect on the skin.
<b>Environmental hazards</b>	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
<b>Other hazards</b>	Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
60 - < 80	Hydrocarbons, C10-C13, n-alkanes, <2 % aromatics CAS: 129813-66-7, EINECS/ELINCS: 929-018-5, Reg-No.: 01-2119475608-26-XXXX GHS/CLP: Asp. Tox. 1: H304 - EUH066
20 - < 30	Silicium dioxide CAS: 112926-00-8/7631-86-9, EINECS/ELINCS: 231-545-4
< 0.5	Ammonia solution CAS: 1336-21-6, EINECS/ELINCS: 215-647-6, EU-INDEX: 007-001-01-2, Reg-No.: 01-2119982985-14-XXXX GHS/CLP: Skin Corr. 1B: H314 - Aquatic Acute 1: H400 - STOT SE 3: H335
< 0.25	Zinc oxide CAS: 1314-13-2, EINECS/ELINCS: 215-222-5, EU-INDEX: 030-013-00-7 GHS/CLP: Aquatic Chronic 1: H410 - Aquatic Acute 1: H400, M-Factor (acute): 1, M-Factor (chronic): 1

**Comment on component parts** Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.  
For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>General information</b>	Take off contaminated clothing and wash before reuse.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Ingestion</b>	Consult a doctor immediately. Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person.

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

No information available.

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

If swallowed or in the event of vomiting, risk of product entering the lungs.  
Treat symptomatically.  
Forward this sheet to your doctor.

Mirka (UK) Ltd  
MK4 1GA Milton Keynes

Date printed 02.01.2023, Revision 22.12.2022

Version 02. Supersedes version: 01

Page 3 / 13

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media	ABC-powder. Foam, dry powder, water spray jet, carbon dioxide
Extinguishing media that must not be used	Full water jet.

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

Risk of formation of toxic pyrolysis products.  
Not combusted hydrocarbons.  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.  
Use self-contained breathing apparatus.  
  
Cool containers at risk with water spray jet.  
Collect contaminated firefighting water separately, must not be discharged into the drains.  
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

## SECTION 6: Accidental release measures

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

Ensure adequate ventilation.  
High risk of slipping due to leakage/spillage of product.  
Wear suitable protective equipment. For personal protection see SECTION 8.

### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).  
Do not discharge into the drains/surface waters/groundwater.

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

Take up with absorbent material (e.g. oil binder).  
Dispose of absorbed material in accordance within the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Use only in well-ventilated areas.  
Provide suitable vacuuming at the processing machines and in the processing area.  
Avoid spilling in enclosed areas.  
Use solvent-resistant equipment.  
Avoid contact with eyes and skin. Use personal protective equipment.  
  
Keep away from all sources of ignition - Refrain from smoking.  
Take precautionary measures against static discharges.  
  
Do not eat, drink or smoke when using this product.  
Wash hands before breaks and after work.  
Use barrier skin cream.  
It is recommended to preview eye-wash bottle and showers.

Mirka (UK) Ltd  
MK4 1GA Milton Keynes

Date printed 02.01.2023, Revision 22.12.2022

Version 02. Supersedes version: 01

Page 4 / 13

## 7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.  
Prevent penetration into the ground.  
Keep only in original container.  
  
Do not store together with oxidizing agents.  
  
Protect from heat/overheating.  
Keep container in a well-ventilated place.  
Keep container tightly closed.  
Keep in a cool place. Store in a dry place.

## 7.3 Specific end use(s)

See product use, SECTION 1.2

# SECTION 8: Exposure controls / personal protection

## 8.1 Control parameters

### Ingredients with occupational exposure limits to be monitored (GB)

Substance
Hydrocarbons, C10-C13, n-alkanes, <2 % aromatics
CAS: 129813-66-7, EINECS/ELINCS: 929-018-5, Reg-No.: 01-2119475608-26-XXXX
Long-term exposure: 1200 mg/m <sup>3</sup>
Silicium dioxide
CAS: 112926-00-8/7631-86-9, EINECS/ELINCS: 231-545-4
Long-term exposure: 2.4 mg/m <sup>3</sup> , respirable dust; inhalable dust - 6 mg/m <sup>3</sup>
Ammonia solution
CAS: 1336-21-6, EINECS/ELINCS: 215-647-6, EU-INDEX: 007-001-01-2, Reg-No.: 01-2119982985-14-XXXX
Long-term exposure: 25 ppm, 18 mg/m <sup>3</sup>
Short-term exposure (15-minute): 35 ppm, 25 mg/m <sup>3</sup> , 15 min

### Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Ammonia solution
CAS: 1336-21-6, EINECS/ELINCS: 215-647-6, EU-INDEX: 007-001-01-2, Reg-No.: 01-2119982985-14-XXXX
Eight hours: 20 ppm, 14 mg/m <sup>3</sup>

Mirka (UK) Ltd  
MK4 1GA Milton Keynes

Date printed 02.01.2023, Revision 22.12.2022

Version 02. Supersedes version: 01

Page 5 / 13

## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Eye protection</b>	Face shield. (EN 166) Safety glasses. (EN 166:2001)
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. > 0.4 mm: Nitrile rubber, >480 min (EN 374-1/-2/-3).
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Do not inhale vapours. Avoid contact with eyes and skin.
<b>Respiratory protection</b>	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, combination filter A-P1. (DIN EN 14387)
<b>Thermal hazards</b>	No information available.
<b>Delimitation and monitoring of the environmental exposition</b>	Comply with applicable environmental regulations limiting discharge to air, water and soil.

Mirka (UK) Ltd  
MK4 1GA Milton Keynes

Date printed 02.01.2023, Revision 22.12.2022

Version 02. Supersedes version: 01

Page 6 / 13

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Liquid
Form	liquid
Color	No information available.
Odor	No information available.
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	198 °C / 388 °F
Flash point [°C]	74 °C / 165 °F
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	123 Pa (20 °C / 68 °F) 732.36 Pa (50 °C / 122 °F)
Density [g/cm <sup>3</sup> ]	0.9343 (20 °C / 68 °F)
Relative density	0.934 (20 °C / 68 °F)
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	insoluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not applicable
Kinematic viscosity	2.86 mm <sup>2</sup> /s (20 °C / 68 °F) < 20.5 mm <sup>2</sup> /s (40°C/ 104°F)
Relative vapour density	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature [°C]	No information available.
Particle characteristics	No information available.

### 9.2 Other information

Dynamic viscosity: 2.67 cP (20 °C / 68 °F).

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

No hazardous reactions known.

### 10.4 Conditions to avoid

Strong heating.

Mirka (UK) Ltd  
MK4 1GA Milton Keynes

Date printed 02.01.2023, Revision 22.12.2022

Version 02. Supersedes version: 01

Page 7 / 13

#### 10.5 Incompatible materials

Strong bases.  
Strong acids.  
Oxidizing agent

#### 10.6 Hazardous decomposition products

No decomposition if used and stored according to specifications.  
In the event of fire: See SECTION 5.

Mirka (UK) Ltd  
MK4 1GA Milton Keynes

Date printed 02.01.2023, Revision 22.12.2022

Version 02. Supersedes version: 01

Page 8 / 13

## SECTION 11: Toxicological information

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

#### Acute oral toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Silicium dioxide, CAS: 112926-00-8/7631-86-9
LD50, oral, Rat, > 15000 mg/kg (IUCLID)
Hydrocarbons, C10-C13, n-alkanes, <2 % aromatics, CAS: 129813-66-7
LD50, oral, Rat, >5000 mg/kg bw (IUCLID)
Zinc oxide, CAS: 1314-13-2
LD50, oral, Rat, > 5000 mg/kg
Ammonia solution, CAS: 1336-21-6
LD50, oral, Rat, 350 mg/kg (25%)

#### Acute dermal toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Silicium dioxide, CAS: 112926-00-8/7631-86-9
LD50, dermal, Rabbit, > 2000 mg/kg (IUCLID)
Hydrocarbons, C10-C13, n-alkanes, <2 % aromatics, CAS: 129813-66-7
LD50, dermal, Rabbit, >3160 mg/kg bw (IUCLID)
Zinc oxide, CAS: 1314-13-2
LD50, dermal, Rat, > 2000 mg/kg

#### Acute inhalational toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Silicium dioxide, CAS: 112926-00-8/7631-86-9
LC0, inhalative, Rat, > 0.139 mg/l 4h (IUCLID)
Zinc oxide, CAS: 1314-13-2
LC0, inhalative, Rat, ≥ 5 mg/m <sup>3</sup> /3h
Ammonia solution, CAS: 1336-21-6
LC50, inhalative, Rat, 1.4 mg/l (4h)(25%)

#### Serious eye damage/irritation

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

Substance
Zinc oxide, CAS: 1314-13-2
Eye, OECD 437, non-irritating

#### Skin corrosion/irritation

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

Substance
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Mirka (UK) Ltd  
MK4 1GA Milton Keynes

Date printed 02.01.2023, Revision 22.12.2022

Version 02. Supersedes version: 01

Page 9 / 13

Zinc oxide, CAS: 1314-13-2

dermal, OECD 431, non-irritating

**Respiratory or skin sensitisation** Based on the available information, the classification criteria are not fulfilled.

Substance

Zinc oxide, CAS: 1314-13-2

Guinea pig, OECD 406, non-sensitizing

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

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

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

Substance

Zinc oxide, CAS: 1314-13-2

mouse, OECD 474, negativ

OECD 487, negativ

in vitro, OECD 473, negativ

in vitro, OECD 476, positive

OECD 471, negativ

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

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

**Aspiration hazard** May be fatal if swallowed and enters airways.  
On basis of test data

**General remarks** Frequent persistent contact with the skin can cause skin irritation.  
Toxicological data of complete product are not available.

## 11.2 Information on other hazards

**Endocrine disrupting properties** No information available.

**Other information** none

## SECTION 12: Ecological information

### 12.1 Toxicity

Substance

Silicium dioxide, CAS: 112926-00-8/7631-86-9

EC0, (96h), Brachidanio rerio, > 10000 mg/l (IUCLID)

Hydrocarbons, C10-C13, n-alkanes, <2 % aromatics, CAS: 129813-66-7

LC50, (96h), Pimephales promelas, >5000 mg/L (IUCLID)

Zinc oxide, CAS: 1314-13-2

LC50, (96h), Danio rerio, 2.525 mg/l

EC50, (3h), Activated sludge, > 1000 mg/l (OECD 209)

EC50, (48h), Daphnia magna, 1 mg/l (OECD 202)

NOEC, (72h), Pseudokirchneriella subcapitata, 0.024 mg/l (OECD 201)

Ammonia solution, CAS: 1336-21-6

LC50, (96h), Oncorhynchus mykiss, 0.53 mg/l

EC50, (48h), Daphnia magna, 24 mg/l

Mirka (UK) Ltd  
MK4 1GA Milton Keynes

Date printed 02.01.2023, Revision 22.12.2022

Version 02. Supersedes version: 01

Page 10 / 13

## 12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	EG: 929-018-5: 83%

## 12.3 Bioaccumulative potential

CAS 1336-21-6: Log POW=-0.64

## 12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

## 12.5 Results of PBT and vPvB assessment

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

## 12.6 Endocrine disrupting properties

No information available.

## 12.7 Other adverse effects

Ecological data of complete product are not available.  
Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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

#### Product

Dispose of as hazardous waste.  
Coordinate disposal with the authorities if necessary.

Waste no. (recommended) 070604\*  
160305\*

#### Contaminated packaging

Uncontaminated packaging may be taken for recycling.  
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110\* packaging containing residues of or contaminated by hazardous substances

## SECTION 14: Transport information

### 14.1 UN number or ID number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

Mirka (UK) Ltd  
MK4 1GA Milton Keynes

Date printed 02.01.2023, Revision 22.12.2022

Version 02. Supersedes version: 01

Page 11 / 13

#### 14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

#### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

#### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

#### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Maritime transport in bulk according to IMO instruments

not applicable

Mirka (UK) Ltd  
MK4 1GA Milton Keynes

Date printed 02.01.2023, Revision 22.12.2022

Version 02. Supersedes version: 01

Page 12 / 13

## SECTION 15: Regulatory information

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

<b>EEC-REGULATIONS</b>	2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014
<b>TRANSPORT-REGULATIONS</b>	ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)
<b>NATIONAL REGULATIONS (GB):</b>	EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.
- Observe employment restrictions for people	Observe employment restrictions for women of child-bearing age. Observe employment restrictions for young people.
- VOC (2010/75/CE)	60 - < 80 %

### 15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1 Hazard statements (SECTION 3)

H410 Very toxic to aquatic life with long lasting effects.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H314 Causes severe skin burns and eye damage.

EUH066 Repeated exposure may cause skin dryness or cracking.

H304 May be fatal if swallowed and enters airways.

Mirka (UK) Ltd  
MK4 1GA Milton Keynes

Date printed 02.01.2023, Revision 22.12.2022

Version 02. Supersedes version: 01

Page 13 / 13

## 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ATE = acute toxicity estimate  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
IVIS = In vitro irritation score  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
LL50 = Median lethal loading  
LQ = Limited Quantities  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
STP = Sewage Treatment Plant  
TLV@TWA = Threshold limit value – time-weighted average  
TLV@STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

## 16.3 Other information

Classification procedure

Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (Calculation method)

Modified position

none



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