

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**HUNTSMAN**

Enriching lives through innovation

## RENLEASE® QZ 5111

Version 2.3      Revision Date: 13.04.2023      SDS Number: 400001008255      Date of last issue: 16.10.2020  
Date of first issue: 08.12.2017

Print Date 27.08.2024

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

#### 1.1 Product identifier

Trade name : RENLEASE® QZ 5111  
Unique Formula Identifier (UFI) : A02A-E0TQ-M00R-P2GS

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

Use of the Substance/Mixture : Use in binder and release agents

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

Company : Huntsman Advanced Materials (Europe) BV  
Address : Everslaan 45  
3078 Everberg  
Belgium  
Telephone : +41 61 299 20 41  
Telefax : +41 61 299 20 40  
E-mail address of person responsible for the SDS : Global\_Product\_EHS\_AdMat@huntsman.com

#### 1.4 Emergency telephone number

Emergency telephone number : Centres Antipoison et de Toxicovigilance:  
ANGERS: 02 41 48 21 21  
BORDEAUX: 05 56 96 40 80  
LILLE: 0 825 812 822  
LYON: 04 72 11 69 11  
MARSEILLE 04 91 75 25 25  
NANCY: 03 83 32 36 36  
PARIS: 01 40 05 48 48  
RENNES: 02 99 59 22 22  
STRASBOURG: 03 88 37 37 37  
TOULOUSE: 05 61 77 74 47  
EUROPE: +32 35 75 1234  
France ORFILA: +33(0)145425959  
ASIA: +65 6336-6011  
China: +86 20 39377888  
+86 532 83889090  
India: + 91 22 42 87 5333  
Australia: 1800 786 152  
New Zealand: 0800 767 437  
USA: +1 800-424-9300

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.
Skin irritation, Category 2	H315: Causes skin irritation.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :  
H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements :  
**Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P273 Avoid release to the environment.  
**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P331 Do NOT induce vomiting.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
P391 Collect spillage.

##### Hazardous components which must be listed on the label:

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha methylcyclohexane  
n-octane  
hexane (containing < 5 % n-hexane (203-777-6))

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### 2.3 Other hazards

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	64742-49-0 265-151-9 649-328-00-1 01-2119475133-43	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 70 - < 90
methylcyclohexane	108-87-2 203-624-3 601-018-00-7 01-2119556887-18	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 2; H411  M-Factor (Acute aquatic toxicity): 1	>= 2,5 - < 10
n-octane	111-65-9 203-892-1 601-009-00-8 01-2119463939-19	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1	>= 2,5 - < 10

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		M-Factor (Chronic aquatic toxicity): 1	
cyclohexane	110-82-7 203-806-2 601-017-00-1 01-2119463273-41	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 2,5 - < 10
hexane (containing < 5 % n-hexane (203-777-6))	107-83-5 203-523-4 601-007-00-7 01-2120768140-61	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 2,5 - < 10

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Treat symptomatically.  
Get medical attention if symptoms occur.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing  
If potential for exposure exists refer to Section 8 for specific personal protective equipment.  
No action shall be taken involving any personal risk or without suitable training.
- If inhaled : Consult a physician after significant exposure.  
If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.

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- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

None known.

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

Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : Exercise caution when using a high volume water jet as it may scatter and spread fire

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

- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

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### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Refer to protective measures listed in sections 7 and 8.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

#### 6.4 Reference to other sections

For disposal considerations see section 13., See Section 1 for emergency contact information., For personal protection see section 8.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke.

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Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Keep in properly labelled containers.

Advice on common storage : For incompatible materials please refer to Section 10 of this SDS.

Recommended storage temperature : 2 - 40 °C

Further information on storage stability : Stable under normal conditions.

**7.3 Specific end use(s)**

Specific use(s) : No data available

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
methylcyclohexane	108-87-2	VME	400 ppm 1 600 mg/m3	FR VLE
Further information	Indicative exposure limits			
n-octane	111-65-9	VME	300 ppm 1 450 mg/m3	FR VLE
Further information	Indicative exposure limits			
cyclohexane	110-82-7	TWA	200 ppm 700 mg/m3	2006/15/EC
Further information	Indicative			
		VME	200 ppm 700 mg/m3	FR VLE
Further information	Regulatory binding exposure limits			
		VLCT (VLE)	375 ppm 1 300 mg/m3	FR VLE
Further information	Indicative exposure limits			
hexane (containing < 5 % n-hexane (203-777-6))	107-83-5	VME (Vapour)	1 000 mg/m3	FR VLE
Further information	Indicative exposure limits			
		VLCT (VLE) (Vapour)	1 500 mg/m3	FR VLE
Further information	Indicative exposure limits			

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	VME	500 ppm 1 800 mg/m <sup>3</sup>	FR VLE
Further information	Indicative exposure limits		

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
methylcyclohexane	Workers	Inhalation	Long-term systemic effects	64,3 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	1354,6 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	1,7 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	16 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	1016 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	0,8 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,4 mg/kg bw/day

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
methylcyclohexane	Fresh water	1,34 µg/l
	Marine water	0,134 µg/l
	Freshwater - intermittent	13,4 µg/l
	Fresh water sediment	0,036 mg/kg dry weight (d.w.)
	Marine sediment	0,003 mg/kg dry weight (d.w.)
	Sewage treatment plant	273 µg/l
	Soil	0,01 mg/kg dry weight (d.w.)

## 8.2 Exposure controls

### Personal protective equipment

Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Hand protection  
Material : butyl-rubber

Material : Nitrile rubber  
Break through time : 10 - 480 min

Material : Ethyl Vinyl Alcohol Laminate (EVAL)  
Break through time : > 8 h

Remarks : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. The suitability for a specific workplace should be



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discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines  
Equipment should conform to EN 14387

Filter type : Organic vapour type (A)

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : Emulsion

Colour : colourless

Odour : solvent-like

Odour Threshold : No data is available on the product itself.

pH : substance/mixture is non-soluble (in water)

Melting point/freezing point : No data available

Boiling point : 84 °C

Flash point : -8,99 °C  
Method: Pensky-Martens closed cup

Flammability (solid, gas) : No data is available on the product itself.

Upper explosion limit / Upper flammability limit : 7,7 %(V)

Lower explosion limit / Lower flammability limit : 0,6 %(V)

Vapour pressure : ca. 290 hPa (50 °C)

Relative vapour density : No data is available on the product itself.

Relative density : ca. 0,71 (20 °C)

Density : ca. 0,71 g/cm<sup>3</sup> (20 °C)  
Method: DIN 53217

Solubility(ies)  
Water solubility : practically insoluble (20 °C)

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Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-octanol/water : No data is available on the product itself.

Auto-ignition temperature : 250 °C

Decomposition temperature : No data is available on the product itself.

Viscosity

Viscosity, dynamic : ca. 30 mPa.s  
Method: ISO 3219

Viscosity, kinematic : 7 - 20 mm<sup>2</sup>/s (40 °C)

Flow time : 26 s  
Cross section: 4 mm  
Method: DIN 53211

### 9.2 Other information

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

Burning rate : No data is available on the product itself.

Evaporation rate : No data is available on the product itself.

Molecular weight : No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Strong acids  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

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Hazardous decomposition products : carbon monoxide  
carbon dioxide  
hydrocarbons

### SECTION 11: Toxicological information

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

##### Acute toxicity

###### Components:

###### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Acute oral toxicity : LD50 (Rat, male and female): > 5 000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 7 630 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2 000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

###### **methylcyclohexane:**

Acute oral toxicity : LD50 (Rabbit): 4 000 - 4 500 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 26,3 mg/l  
Exposure time: 1 h  
Test atmosphere: vapour  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2 000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

###### **n-octane:**

Acute oral toxicity : LD50 (Rat, male and female): > 5 000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 24,88 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 2 000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal

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toxicity

### **cyclohexane:**

Acute oral toxicity : LD50 (Rat): 5 500 - 6 000 mg/kg

LD50 (Rat): 12 705 mg/kg  
Method: No information available.

Acute inhalation toxicity : LC50 (Rat, male and female): > 19 070 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity

### **Skin corrosion/irritation**

#### **Components:**

#### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Skin irritation

#### **methylcyclohexane:**

Species : Rabbit  
Result : Skin irritation

#### **n-octane:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Skin irritation

#### **cyclohexane:**

Result : Skin irritation

#### **hexane (containing < 5 % n-hexane (203-777-6)):**

Species : Human  
Assessment : Irritating to skin.  
Result : Skin irritation

### **Serious eye damage/eye irritation**

#### **Components:**

#### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation

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### **methylcyclohexane:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation

### **n-octane:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation

### **Respiratory or skin sensitisation**

#### **Components:**

#### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

### **methylcyclohexane:**

Exposure routes : Skin  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

### **n-octane:**

Test Type : Maximisation Test  
Exposure routes : Dermal  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

### **hexane (containing < 5 % n-hexane (203-777-6)):**

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : Did not cause sensitisation on laboratory animals.  
Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.  
Remarks : Information given is based on data obtained from similar substances.

### **Germ cell mutagenicity**

#### **Components:**

#### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Result: negative

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Genotoxicity in vivo : Test Type: Micronucleus test  
Application Route: Inhalation  
Result: negative

Test Type: In vivo micronucleus test  
Species: Rat  
Application Route: Intraperitoneal injection  
Result: negative

### **methylcyclohexane:**

Genotoxicity in vitro : Concentration: 8 - 100 µg/L  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Concentration: 61.3 - 980 µg/L  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

### **n-octane:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Test system: human lymphoblastoid cells  
Concentration: 5% v/v  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: rat hepatocytes  
Concentration: 2.5, 5, 10µg/ml  
Method: OECD Test Guideline 473  
Result: negative

Test Type: Ames test  
Test system: Salmonella typhimurium and E. coli  
Concentration: 250µg/ml  
Metabolic activation: with and without metabolic activation  
Method: No information available.  
Result: negative

### **hexane (containing < 5 % n-hexane (203-777-6)):**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

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### Carcinogenicity

#### Components:

#### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Species : Mouse, male  
Application Route : Dermal  
Result : negative

### Reproductive toxicity

#### Components:

#### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: inhalation (vapour)  
General Toxicity - Parent: NOAEL:  $\geq 20\,000\text{ mg/m}^3$   
General Toxicity F1: NOAEL:  $\geq 20\,000\text{ mg/m}^3$   
Method: OECD Test Guideline 416  
Result: No effects on fertility and early embryonic development were detected.

Effects on foetal development : Species: Rat  
Application Route: inhalation (vapour)  
General Toxicity Maternal: NOAEL:  $23\,900\text{ mg/m}^3$   
Teratogenicity: NOAEL:  $23\,900\text{ mg/m}^3$   
Result: No adverse effects

#### **methylcyclohexane:**

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Dose: 250 milligram per kilogram  
Method: OECD Test Guideline 422  
Result: negative

Species: Rat, male and female  
Application Route: Inhalation  
Dose:  $2020\text{ mg/m}^3$   
Method: OECD Test Guideline 416  
Result: negative

Effects on foetal development : Species: Rabbit  
Application Route: Inhalation  
General Toxicity Maternal: NOAEL:  $28\,100\text{ mg/m}^3$   
Method: OECD Test Guideline 414  
Result: No teratogenic effects

Species: Rat  
Application Route: Inhalation  
General Toxicity Maternal: NOAEL:  $1\,720\text{ mg/m}^3$   
Method: OECD Test Guideline 414  
Result: No teratogenic effects

#### **n-octane:**

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Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: inhalation (vapour)  
Dose: 0,900,3000,9000 parts per million  
Duration of Single Treatment: 6 h  
Frequency of Treatment: 5 days/week  
General Toxicity - Parent: NOAEL: 31 680 mg/m<sup>3</sup>  
General Toxicity F1: NOAEL: 10 560 mg/m<sup>3</sup>  
Method: OECD Test Guideline 416  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rabbit  
Application Route: inhalation (vapour)  
Dose: 0, 500, 2000, 7000 ppm  
Duration of Single Treatment: 12 d  
General Toxicity Maternal: NOAEC: > 7 000 ppm  
Developmental Toxicity: NOAEC: > 7 000 ppm  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (vapour)  
Dose: 0, 900, 3000, 9000 ppm  
Duration of Single Treatment: 9 d  
General Toxicity Maternal: NOAEL: 10 560 mg/m<sup>3</sup>  
Developmental Toxicity: NOAEL: 31 680 mg/m<sup>3</sup>  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

### STOT - single exposure

#### Components:

#### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Exposure routes : inhalation (vapour)  
Target Organs : Narcotic effects  
Assessment : May cause drowsiness or dizziness.

#### **methylcyclohexane:**

Exposure routes : Inhalation  
Target Organs : Respiratory Tract  
Assessment : May cause drowsiness or dizziness.

#### **n-octane:**

Exposure routes : inhalation (vapour)  
Target Organs : Central nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

#### **cyclohexane:**

Exposure routes : Inhalation



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Target Organs : Central nervous system  
Assessment : May cause drowsiness or dizziness.

### hexane (containing < 5 % n-hexane (203-777-6)):

Exposure routes : Ingestion  
Target Organs : Brain  
Assessment : May cause drowsiness or dizziness.

Exposure routes : Inhalation  
Target Organs : Brain  
Assessment : May cause drowsiness or dizziness.

### STOT - repeated exposure

No data available

### Repeated dose toxicity

#### Components:

#### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Species : Rat  
NOEL : < 500 mg/kg bw/d  
Application Route : Oral  
Method : No information available.

Species : Rat  
NOEL : > 2000 mg/kg bw/d  
Application Route : Dermal  
Method : No information available.

#### **methylcyclohexane:**

Species : Rat, male and female  
NOAEL : 100 mg/kg  
Application Route : Ingestion  
Exposure time : 28 d  
Dose : 100, 300, 1000 mg/kg bw/day  
Method : OECD Test Guideline 407

Species : Rat, male and female  
NOAEL : 250 mg/kg  
Application Route : Ingestion  
Exposure time : 28 d  
Dose : 62.5, 250, 1000 mg/kg bw/da  
Method : OECD Test Guideline 422

Species : Rat, male and female  
NOEC : 250 mg/m<sup>3</sup>  
Application Route : Ingestion  
Test atmosphere : vapour  
Exposure time : 8 640 h  
Number of exposures : 7 d  
Method : Subacute toxicity

#### **n-octane:**

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Species : Rat, male and female  
NOAEL : 24,3 mg/l  
Application Route : inhalation (vapour)  
Test atmosphere : vapour  
Exposure time : 13 weeks  
Number of exposures : 6h/d, 5d/wk  
Dose : 668, 2220 and 6646ppm  
Control Group : yes  
Method : OECD Test Guideline 413  
Remarks : Information given is based on data obtained from similar substances.

Species : Rat, male  
NOAEL : 8,4 mg/l  
Application Route : inhalation (vapour)  
Test atmosphere : vapour  
Exposure time : 13 weeks  
Number of exposures : 6h/d. 5d/wk  
Dose : 1.9, 3.1, 8.4mg/L  
Control Group : yes  
Method : OECD Test Guideline 413  
Remarks : Information given is based on data obtained from similar substances.

Species : Rat, male  
NOAEL : > 14 mg/l  
Application Route : inhalation (vapour)  
Test atmosphere : vapour  
Exposure time : 3 days  
Number of exposures : 8hr/d  
Dose : 0, 1.4, 4.2, 14g/m<sup>3</sup>  
Control Group : yes  
Method : No information available.

### Aspiration toxicity

#### Components:

#### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

May be fatal if swallowed and enters airways.

#### **methylcyclohexane:**

May be fatal if swallowed and enters airways.

#### **n-octane:**

May be fatal if swallowed and enters airways.

#### **cyclohexane:**

May be fatal if swallowed and enters airways.

#### **hexane (containing < 5 % n-hexane (203-777-6)):**

May be fatal if swallowed and enters airways.

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### 11.2 Information on other hazards

#### Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

#### Experience with human exposure

No data available

#### Toxicology, Metabolism, Distribution

No data available

#### Neurological effects

No data available

#### Further information

**Product:**

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
Concentrations substantially above the TLV value may cause narcotic effects.  
Solvents may degrease the skin.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Components:**

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Toxicity to fish : LL50 : 10 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 4,5 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (algae)): 3,7 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 201

NOELR (Pseudokirchneriella subcapitata (algae)): 0,5 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 201

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR: 2,6 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211

### **methylcyclohexane:**

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): 2,07 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Test substance: Fresh water  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,326 mg/l  
Exposure time: 48 h  
Test Type: semi-static test  
Test substance: Fresh water  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (algae)): 0,134 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,0221 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : NOEC (activated sludge): 2,755 mg/l  
Exposure time: 14 d  
Test Type: static test  
Test substance: Fresh water

### **n-octane:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2,587 mg/l  
Exposure time: 96 h  
Method: QSAR

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,3 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: Other guidelines

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (algae)): 2,084 mg/l  
Exposure time: 72 h  
Method: QSAR

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NOELR (Pseudokirchneriella subcapitata (algae)): 0,466 mg/l  
Exposure time: 72 h  
Method: QSAR

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EL50 (Tetrahymena pyriformis): 10,86 mg/l  
Exposure time: 48 h  
Method: QSAR

Toxicity to fish (Chronic toxicity) : 0,579 mg/l  
Exposure time: 28 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Method: QSAR

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR: 1 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

NOEC: 0,17 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

### **cyclohexane:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4,53 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203

LC50 : 93 - 117 mg/l  
Exposure time: 96 h

LC0 : 32 mg/l  
Exposure time: 96 h  
Method: No information available.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,9 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

EC50 : 3,78 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : IC50 : > 500 mg/l  
Exposure time: 72 h

ErC50 (Pseudokirchneriella subcapitata (green algae)): >

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4,425 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,925 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : IC50 : 24 mg/l  
Exposure time: 15 h

M-Factor (Chronic aquatic toxicity) : 1

### hexane (containing < 5 % n-hexane (203-777-6)):

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 3,649 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test substance: Fresh water  
Method: Calculation method  
GLP: no

Toxicity to algae/aquatic plants : EC50 (green algae): 4,321 mg/l  
Exposure time: 96 h  
Method: Calculation method  
GLP: no

## 12.2 Persistence and degradability

### Components:

#### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Biodegradability : Result: Inherently biodegradable.

#### **methylcyclohexane:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

Photodegradation : Test Type: Air  
Rate constant: < .00001  
Degradation (direct photolysis): 50 %

#### **n-octane:**

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Biodegradability : Result: Readily biodegradable.  
Biodegradation: 70 %  
Exposure time: 10 d

### **cyclohexane:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: < 60 %  
Exposure time: 28 d

### **hexane (containing < 5 % n-hexane (203-777-6)):**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge, adapted  
Concentration: 100 mg/l  
Result: Readily biodegradable.  
Biodegradation: 93 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C  
GLP: yes

Biochemical Oxygen Demand (BOD) : 105 - 121 mg/g  
Method: OECD Test Guideline 301C  
GLP: yes

## 12.3 Bioaccumulative potential

### Components:

#### **methylcyclohexane:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Exposure time: 56 d  
Bioconcentration factor (BCF): 95 - 321  
Method: flow-through test

Partition coefficient: n-octanol/water : log Pow: 3,88

#### **n-octane:**

Bioaccumulation : Species: Other  
Exposure time: 105 min  
Temperature: 15 °C  
Bioconcentration factor (BCF): 198,7

Partition coefficient: n-octanol/water : log Pow: 5,15

#### **cyclohexane:**

Bioaccumulation : Bioconcentration factor (BCF): 89

Partition coefficient: n-octanol/water : log Pow: 3,44

### **hexane (containing < 5 % n-hexane (203-777-6)):**

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Partition coefficient: n-octanol/water : log Pow: 3,214 (25 °C)  
pH: 7  
Method: Calculation method  
GLP: no

### 12.4 Mobility in soil

#### Components:

#### **Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Distribution among environmental compartments : Koc: > 60,7 - < 229,2, log Koc: > 1,783 - < 2,36  
Method: Calculation method

#### **methylcyclohexane:**

Distribution among environmental compartments : Koc: 233,9

#### **n-octane:**

Distribution among environmental compartments : Koc: 436,8, log Koc: 2,64  
Method: Calculation method

#### **cyclohexane:**

Distribution among environmental compartments : Koc: 160

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : 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.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

### 12.7 Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.



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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Product : Dispose of contents and container in accordance with all local, regional, national and international regulations.  
Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

- ADN : UN 1993  
ADR : UN 1993  
RID : UN 1993  
IMDG : UN 1993  
IATA : UN 1993

#### 14.2 UN proper shipping name

- ADN : FLAMMABLE LIQUID, N.O.S.  
(NAPHTA, HYDROTREATED LIGHT AND HEXANE, MIXTURE OF ISOMERS (MAX. 5% N-HEXANE))
- ADR : FLAMMABLE LIQUID, N.O.S.  
(NAPHTA, HYDROTREATED LIGHT AND HEXANE, MIXTURE OF ISOMERS (MAX. 5% N-HEXANE))
- RID : FLAMMABLE LIQUID, N.O.S.  
(NAPHTA, HYDROTREATED LIGHT AND HEXANE, MIXTURE OF ISOMERS (MAX. 5% N-HEXANE))
- IMDG : FLAMMABLE LIQUID, N.O.S.  
(NAPHTA, HYDROTREATED LIGHT AND HEXANE, MIXTURE OF ISOMERS (MAX. 5% N-HEXANE))
- IATA : Flammable liquid, n.o.s.  
(NAPHTA, HYDROTREATED LIGHT AND HEXANE, MIXTURE OF ISOMERS (MAX. 5% N-HEXANE))

#### 14.3 Transport hazard class(es)

- |     | Class | Subsidiary risks |
|-----|-------|------------------|
| ADN | : 3   |                  |
| ADR | : 3   |                  |
| RID | : 3   |                  |

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**IMDG** : 3

**IATA** : 3

### 14.4 Packing group

#### ADN

Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3

#### ADR

Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3  
Tunnel restriction code : (D/E)

#### RID

Packing group : II  
Classification Code : F1  
Hazard Identification Number : 33  
Labels : 3

#### IMDG

Packing group : II  
Labels : 3  
EmS Code : F-E, S-E

#### IATA (Cargo)

Packing instruction (cargo aircraft) : 364  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

#### IATA (Passenger)

Packing instruction (passenger aircraft) : 353  
Packing instruction (LQ) : Y341  
Packing group : II  
Labels : Flammable Liquids

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : yes

#### ADR

Environmentally hazardous : yes

#### RID

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data

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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

cyclohexane (Number on list 57)

E1

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P5c FLAMMABLE LIQUIDS

E2 ENVIRONMENTAL HAZARDS

34 Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

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Occupational Illnesses (R-461-3, France) : 84, 36

Installations classified for the protection of the environment (Environment Code R511-9) : 4331, 4511, 4510, 4734

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### The components of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

AIIC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

### Inventories

AICS (Australia), AIIC (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

## 15.2 Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

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## SECTION 16: Other information

### Full text of H-Statements

H225 : Highly flammable liquid and vapour.

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H304	: May be fatal if swallowed and enters airways.
H315	: Causes skin irritation.
H336	: May cause drowsiness or dizziness.
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.

### Full text of other abbreviations

Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Flam. Liq.	: Flammable liquids
Skin Irrit.	: Skin irritation
STOT SE	: Specific target organ toxicity - single exposure
2006/15/EC	: Europe. Indicative occupational exposure limit values
FR VLE	: France. Occupational Exposure Limits
2006/15/EC / TWA	: Limit Value - eight hours
FR VLE / VME	: Time Weighted Average
FR VLE / VLCT (VLE)	: Short Term Exposure Limit

### Further information

#### Classification of the mixture:

Flam. Liq. 2	H225
Skin Irrit. 2	H315
STOT SE 3	H336
Asp. Tox. 1	H304
Aquatic Chronic 2	H411

#### Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method
Calculation method

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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