# Acrylamide 50% w/v solution in water (contains 0.5% w/v Methylene bisacrylamide)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 4/17/2019 Version: 1.0

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

### 1.1. Product identifier

| | |
|---|---|
| Product form | : Mixture |
| Product name | : Acrylamide 50% w/v solution in water (contains 0.5% w/v Methylene bisacrylamide) |
| CAS-No. | : 79-06-1 |
| Product code | : 90025267 |
| Formula | : C3H5NO |
| Product group | : Blend |

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

#### 1.2.1. Relevant identified uses

| | |
|---|---|
| Main use category | : Laboratory use,Industrial use,Professional use |
| Industrial/Professional use spec | : For professional use only |

#### 1.2.2. Uses advised against

No additional information available

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

**Supplier**

Scafell Organics
Molekula Ltd
Lingfield Way
Darlington - England
T +44 (0) 1949 823777 / +44 (0) 7590 545705
info@molekula.com / kbowen@molekula.com - www.molekula.com

### 1.4. Emergency telephone number

Emergency number : +44 (0) 7590 545705

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

| | |
|---|---|
| Acute toxicity (oral), Category 3 | H301 |
| Acute toxicity (inhalation:dust,mist) Category 4 | H332 |
| Germ cell mutagenicity, Category 1A | H340 |
| Carcinogenicity, Category 1A | H350 |
| Reproductive toxicity, Category 2 | H361f |
| Specific target organ toxicity — Repeated exposure, Category 1 | H372 |

Full text of H statements : see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

### 2.2. Label elements

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

Hazard pictograms (CLP) :

GHS06 GHS08

Signal word (CLP) : Danger

Hazardous ingredients : Acrylamide

Hazard statements (CLP) : H301 - Toxic if swallowed.
H332 - Harmful if inhaled.
H340 - May cause genetic defects.
H350 - May cause cancer.
H361f - Suspected of damaging fertility.
H372 - Causes damage to organs through prolonged or repeated exposure.

| | |
|---|---|
| Precautionary statements (CLP) | : P260 - Do not breathe mist, spray, vapours.<br>P263 - Avoid contact during pregnancy and while nursing.<br>P280 - Wear protective clothing, eye protection, face protection, protective gloves.<br>P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| Acrylamide<br>substance listed as REACH Candidate | (CAS-No.) 79-06-1<br>(EC-No.) 201-173-7<br>(EC Index-No.) 616-003-00-0 | 50 - 50 | Acute Tox. 3 (Oral), H301<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation), H332<br>Acute Tox. 4 (Inhalation:dust,mist), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Muta. 1B, H340<br>Carc. 1B, H350<br>Repr. 2, H361f<br>STOT RE 1, H372 |
| WATER | (CAS-No.) 7732-18-5<br>(EC-No.) 231-791-2 | 50 - 50 | Not classified |
| Methylene bisacrylamide | (CAS-No.) 110-26-9<br>(EC-No.) 203-750-9 | | Acute Tox. 4 (Oral), H302 |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

| | |
|---|---|
| First-aid measures general | : If possible show this sheet, if not available show packaging or label. Never give anything by mouth to an unconscious person. Do not leave affected person unattended. |
| First-aid measures after inhalation | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If breathing difficulties persist : Get medical advice/attention. |
| First-aid measures after skin contact | : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not remove clothing if it sticks to the skin. If irritation persists, consult a doctor. |
| First-aid measures after eye contact | : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention. |

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

| | |
|---|---|
| Symptoms/effects after inhalation | : May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing. Headache. May be harmful if inhaled. More severe symptoms are also possible. |
| Symptoms/effects after skin contact | : May cause skin irritation. May be harmful in contact with skin. Redness, pain. More severe symptoms are also possible. |
| Symptoms/effects after eye contact | : May cause severe irritation. Blurred vision. redness, itching, tears. stinging. More severe symptoms are also possible. |
| Symptoms/effects after ingestion | : Swallowing a small quantity of this material will result in serious health hazard. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting. More severe symptoms are also possible. |
| Chronic symptoms | : May cause cancer. May cause damage to internal organs. Suspected of damaging fertility. |

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

Immediately call a POISON CENTER/doctor.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Hazardous decomposition products in case of fire : ammonia. Carbon oxides (CO, CO2). Nitrogen oxides.

### 5.3. Advice for firefighters

Precautionary measures fire : Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Warn all persons of toxic hazard.

## SECTION 6: Accidental release measures

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

General measures : Isolate from fire, if possible, without unnecessary risk. Do not breathe gas, fumes, vapour or spray. No flames, no sparks. Eliminate all sources of ignition.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Do not touch or walk on the spilled product. Avoid contact with skin, eyes and clothing.

Measures in case of dust release : Shelter from vapours by keeping upwind. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Use self-contained breathing apparatus and chemically protective clothing.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

For containment : Collect spillage. Contain the spilled material by bunding.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Try to stop release if without risk.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid formation of vapours. Provide local exhaust or general room ventilation.

Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.

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

Technical measures : Ensure adequate ventilation, especially in confined areas.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container closed when not in use. Light sensitive. Store contents under inert gas.

Incompatible products : Strong oxidisers. Acids. Bases. Aluminium. Brass. Iron. reducing agents. copper.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources. Light sensitive.

Storage temperature : 2 - 8 °C

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Storage area : Store in dry protected location to prevent any moisture contact.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Acrylamide 50% w/v solution in water (contains 0.5% w/v Methylene bisacrylamide) (79-06-1) | | |
|---|---|---|
| United Kingdom | Local name | Acrylamide |
| United Kingdom | WEL TWA (mg/m³) | 0.3 mg/m³ |
| United Kingdom | Remark (WEL) | Carc (Capable of causing cancer and/or heritable genetic damage), Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| United Kingdom | Regulatory reference | EH40/2005 (Third edition, 2018). HSE |

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| United Kingdom | Regulatory reference | EH40/2005 (Third edition, 2018). HSE |

### 8.2. Exposure controls

**Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety procedures. Floors should be impervious, resistant to liquids and easy to clean.

**Personal protective equipment:**

Avoid all unnecessary exposure.

**Hand protection:**

The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374

| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
|---|---|---|---|---|---|
| | Nitrile rubber (NBR), Butyl rubber | 6 (> 480 minutes) | | | EN 374 |

**Eye protection:**

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Use eye protection according to EN 166, designed to protect against liquid splashes.

| Type | Use | Characteristics | Standard |
|---|---|---|---|
| Safety goggles, Face shield | Droplet, vapours | tightly fitting safety goggles, With side shields | EN 166 |

**Skin and body protection:**

Emergency safety showers should be available in the immediate vicinity of any potential exposure. Keep suitable chemically resistant protective clothing readily available for emergency use

| Type | Standard |
|---|---|
| Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product | EN 14605 |

**Respiratory protection:**

Keep self contained breathing apparatus readily available for emergency use. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

| Device | Filter type | Condition | Standard |
|---|---|---|---|
| Air-Purifying Respirator (APR), reusable, Respiratory protective device with a particle filter | ABEK, Filter E (yellow) | Moist condition, Mist formation, Protection for Liquid particles, Vapour protection | EN 14387, EN 143 |

**Other information:**

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state | : Liquid |
| Appearance | : Clear. |
| Molecular mass | : 71.08 g/mol |
| Colour | : Colourless to pale yellow. |
| Odour | : No data available. |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : 125 °C |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Non flammable. |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : 1.122 |
| Solubility | : No data available |
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Light sensitive.

### 10.5. Incompatible materials

Strong oxidizers. Acids. Aluminium. Bases. Brass. Iron. reducing agents. copper.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. Thermal decomposition generates :

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

| | |
|---|---|
| Acute toxicity (oral) | : Oral: Toxic if swallowed. |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Inhalation:dust,mist: Harmful if inhaled. |

| | |
|---|---|
| ATE CLP (oral) | 100 mg/kg bodyweight |
| ATE CLP (dust,mist) | 1.5 mg/l/4h |

| Acrylamide (79-06-1) | |
|---|---|
| LD50 oral rat | 177 mg/kg |
| LD50 dermal rabbit | 1141 mg/kg |
| LC50 inhalation rat (mg/l) | > 1500 mg/m³ |

Skin corrosion/irritation : Not classified

| | |
|---|---|
| Additional information | : Based on available data, the classification criteria are not met |
| Serious eye damage/irritation | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| Respiratory or skin sensitisation | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| Germ cell mutagenicity | : May cause genetic defects. |
| Additional information | : Based on available data, the classification criteria are not met |
| Carcinogenicity | : May cause cancer. |
| Additional information | : Based on available data, the classification criteria are not met |
| Reproductive toxicity | : Suspected of damaging fertility. |
| Additional information | : Based on available data, the classification criteria are not met |
| STOT-single exposure | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| STOT-repeated exposure | : Causes damage to organs through prolonged or repeated exposure. |
| Additional information | : Based on available data, the classification criteria are not met |
| Aspiration hazard | : Not classified |
| Additional information | : Based on available data, the classification criteria are not met |
| Potential adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |

## SECTION 12: Ecological information

### 12.1. Toxicity

| | |
|---|---|
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |

| Acrylamide (79-06-1) | |
|---|---|
| LC50 fish 1 | 90 mg/l Pimephales promelas (fathead minnow) 96hr |
| EC50 Daphnia 1 | 160 mg/l Daphnia magna (Water flea) 48hr |

### 12.2. Persistence and degradability

| Acrylamide 50% w/v solution in water (contains 0.5% w/v Methylene bisacrylamide) (79-06-1) | |
|---|---|
| Persistence and degradability | No data available. |

| Acrylamide (79-06-1) | |
|---|---|
| Persistence and degradability | No data available. |

| WATER (7732-18-5) | |
|---|---|
| Persistence and degradability | No data available. |

| Methylene bisacrylamide (110-26-9) | |
|---|---|
| Persistence and degradability | No data available. |

### 12.3. Bioaccumulative potential

| Acrylamide 50% w/v solution in water (contains 0.5% w/v Methylene bisacrylamide) (79-06-1) | |
|---|---|
| Bioaccumulative potential | No data available. |

| Acrylamide (79-06-1) | |
|---|---|
| Log Pow | -0.67 |
| Bioaccumulative potential | No data available. |

| WATER (7732-18-5) | |
|---|---|
| Bioaccumulative potential | No bioaccumulation data available. |

| Methylene bisacrylamide (110-26-9) | |
|---|---|
| Bioaccumulative potential | No data available. |

### 12.4. Mobility in soil
No additional information available

### 12.5. Results of PBT and vPvB assessment

| Acrylamide 50% w/v solution in water (contains 0.5% w/v Methylene bisacrylamide) (79-06-1) |
|---|
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

| Component | |
|---|---|
| Acrylamide (79-06-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

### 12.6. Other adverse effects
Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations
### 13.1. Waste treatment methods
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment. Hazardous waste due to toxicity.

## SECTION 14: Transport information
In accordance with ADR / RID / IMDG / IATA / ADN

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| **14.1. UN number** | | | | |
| 3426 | 3426 | 3426 | 3426 | 3426 |
| **14.2. UN proper shipping name** | | | | |
| ACRYLAMIDE SOLUTION | ACRYLAMIDE SOLUTION | Acrylamide solution | ACRYLAMIDE SOLUTION | ACRYLAMIDE SOLUTION |
| **Transport document description** | | | | |
| UN 3426 ACRYLAMIDE SOLUTION (Acrylamide 50% w/v solution in water (contains 0.5% w/v Methylene bisacrylamide)), 6.1, III, (E) | UN 3426 ACRYLAMIDE SOLUTION (Acrylamide 50% w/v solution in water (contains 0.5% w/v Methylene bisacrylamide)), 6.1, III | UN 3426 Acrylamide solution (Acrylamide 50% w/v solution in water (contains 0.5% w/v Methylene bisacrylamide)), 6.1, III | UN 3426 ACRYLAMIDE SOLUTION (Acrylamide 50% w/v solution in water (contains 0.5% w/v Methylene bisacrylamide)), 6.1, III | UN 3426 ACRYLAMIDE SOLUTION (Acrylamide 50% w/v solution in water (contains 0.5% w/v Methylene bisacrylamide)), 6.1, III |
| **14.3. Transport hazard class(es)** | | | | |
| 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
|  |  |  |  |  |
| **14.4. Packing group** | | | | |
| III | III | III | III | III |
| **14.5. Environmental hazards** | | | | |
| Dangerous for the environment : No | Dangerous for the environment : No<br>Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |
| No supplementary information available | | | | |

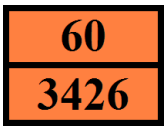
### 14.6. Special precautions for user
**Overland transport**

Classification code (ADR) : T1

Limited quantities (ADR) : 5l

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

| | |
|---|---|
| Mixed packing provisions (ADR) | : MP19 |
| Portable tank and bulk container instructions (ADR) | : T4 |
| Portable tank and bulk container special provisions (ADR) | : TP1 |
| Tank code (ADR) | : L4BH |
| Tank special provisions (ADR) | : TU15, TE19 |
| Vehicle for tank carriage | : AT |
| Transport category (ADR) | : 2 |
| Special provisions for carriage - Packages (ADR) | : V12 |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13, CV28 |
| Special provisions for carriage - Operation (ADR) | : S9 |
| Hazard identification number (Kemler No.) | : 60 |
| Orange plates | :   |
| Tunnel restriction code (ADR) | : E |
| EAC code | : 2X |

**Transport by sea**

| | |
|---|---|
| Special provisions (IMDG) | : 223 |
| Packing instructions (IMDG) | : P001, LP01 |
| IBC packing instructions (IMDG) | : IBC03 |
| Tank instructions (IMDG) | : T4 |
| Tank special provisions (IMDG) | : TP1 |
| EmS-No. (Fire) | : F-A |
| EmS-No. (Spillage) | : S-A |
| Stowage category (IMDG) | : A |
| Stowage and handling (IMDG) | : SW1, H2 |
| Properties and observations (IMDG) | : Toxic if swallowed, by skin contact or by inhalation. |

**Air transport**

| | |
|---|---|
| PCA Excepted quantities (IATA) | : E1 |
| PCA Limited quantities (IATA) | : Y642 |
| PCA limited quantity max net quantity (IATA) | : 2L |
| PCA packing instructions (IATA) | : 655 |
| PCA max net quantity (IATA) | : 60L |
| CAO packing instructions (IATA) | : 663 |
| CAO max net quantity (IATA) | : 220L |
| Special provisions (IATA) | : A3 |
| ERG code (IATA) | : 6L |

**Inland waterway transport**

| | |
|---|---|
| Classification code (ADN) | : T1 |
| Limited quantities (ADN) | : 5 L |
| Excepted quantities (ADN) | : E1 |
| Carriage permitted (ADN) | : T |
| Equipment required (ADN) | : PP, EP, TOX, A |
| Ventilation (ADN) | : VE02 |
| Number of blue cones/lights (ADN) | : 0 |

**Rail transport**

| | |
|---|---|
| Classification code (RID) | : T1 |
| Excepted quantities (RID) | : E1 |
| Packing instructions (RID) | : P001, IBC03, LP01, R001 |
| Mixed packing provisions (RID) | : MP19 |
| Portable tank and bulk container instructions (RID) | : T4 |
| Portable tank and bulk container special provisions (RID) | : TP1 |

| | |
|---|---|
| Tank codes for RID tanks (RID) | : L4BH |
| Special provisions for RID tanks (RID) | : TU15 |
| Transport category (RID) | : 2 |
| Special provisions for carriage – Packages (RID) | : W12 |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW13, CW28, CW31 |
| Colis express (express parcels) (RID) | : CE8 |
| Hazard identification number (RID) | : 60 |

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

## SECTION 15: Regulatory information
### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Acrylamide is on the REACH Candidate List
Contains a substance on the REACH candidate list in concentration ≥ 0.1% or with a lower specific limit: Acrylamide (EC 201-173-7, CAS 79-06-1)
Contains no REACH Annex XIV substances
Directive 2012/18/EU (SEVESO III)

#### 15.1.2. National regulations
No additional information available

### 15.2. Chemical safety assessment
No chemical safety assessment has been carried out for the substance or the mixture by the supplier

## SECTION 16: Other information
| | |
|---|---|
| Data sources | : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. |
| Other information | : None. |

| **Full text of H- and EUH-statements:** | |
|---|---|
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Carc. 1B | Carcinogenicity, Category 1B |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Muta. 1B | Germ cell mutagenicity, Category 1B |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| STOT RE 1 | Specific target organ toxicity — Repeated exposure, Category 1 |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H340 | May cause genetic defects. |
| H350 | May cause cancer. |

| | |
|---|---|
| H361f | Suspected of damaging fertility. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |

SDS EU (REACH Annex II)

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