# Safety Data Sheet AB 111763

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 830/2015 - Europe
Date of revision 15.06.2020
Version 0.04

## 1. Identification of the Substance and the Company

### 1.1 Product identifier

**Product name** Diiodomethane; 99%, stabilized with copper
**CAS number** 75-11-6
**Product code** AB 111763

### 1.2 Identified uses

Chemicals used in research and development, analysis and production

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

Company details
abcr GmbH
Im Schlehert 10
76187 Karlsruhe
Germany
Telephone +49 (0)721 950 610
Email sdb@abcr.de

### 1.4 Emergency telephone number

+49 (0) 6131/19240
www.giftinfo.uni-mainz.de

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** Substance

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

| | |
|---|---|
| H301 | ACUTE TOXICITY (oral) - Category 3 |
| H311 | ACUTE TOXICITY (dermal) - Category 3 |
| H332 | ACUTE TOXICITY (inhalation) - Category 4 |
| H315 | SKIN CORROSION/IRRITATION - Category 2 |
| H319 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 |
| H335 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |

### 2.2 Label elements

**Hazard pictograms**

**Signal word** Danger

**Hazard statements**
H301 + H311 - Toxic if swallowed or in contact with skin.
H332 - Harmful if inhaled.
H319 - Causes serious eye irritation.
H315 - Causes skin irritation.
H335 - May cause respiratory irritation.

**Precautionary statements**
P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection.
P261 - Avoid breathing vapor.
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301 + P310 + P330 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Hazardous ingredients**
diiodomethane

**Supplemental label elements**
Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**
Not applicable.

## 2.3 Other hazards

**Other hazards which do not result in classification**
None known.

See Section 11 for more detailed information on health effects and symptoms.

# 3. Composition/information on ingredients

**Substance/mixture**
Mono-constituent substance

| Product/ingredient name | Identifiers | % | Classification Regulation (EC) No. 1272/2008 [CLP] | Type |
|---|---|---|---|---|
| Diiodomethane; 99%, stabilized with copper | EC: 200-841-5<br>CAS: 75-11-6 | 100 | Acute Tox. 3, H301<br>Acute Tox. 3, H311<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>**See Section 16 for the full text of the H statements declared above.** | [A] |

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

[A] Constituent
[B] Impurity
[C] Stabilizing additive

Occupational exposure limits, if available, are listed in Section 8.

# 4. First aid measures

## 4.1 Description of first aid measures

**Eye contact**
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**Inhalation**
Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact**
Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion**
Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Protection of first-aiders**
No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

**Potential acute health effects**

**Eye contact**
Causes serious eye irritation.

**Inhalation**
Harmful if inhaled. May cause respiratory irritation.

**Skin contact**
Toxic in contact with skin. Causes skin irritation.

**Ingestion**
Toxic if swallowed.

**Over-exposure signs/symptoms**

**Eye contact**
Adverse symptoms may include the following:
pain or irritation
watering
redness

**Inhalation**
Adverse symptoms may include the following:
respiratory tract irritation
coughing

**Skin contact**
Adverse symptoms may include the following:
irritation
redness

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

**Notes to physician** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** No specific treatment.

## 5. Fire-fighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** In case of fire, use water spray (fog), foam, dry chemical or $CO_2$.

**Unsuitable extinguishing media** None known.

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

**Hazards from the substance or mixture** Combustible. In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion products** Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
Hydrogen iodide
carbonyl halides

### 5.3 Advice for firefighters

**Special precautions for fire-fighters** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## 6. Accidental release measures

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

**For non-emergency personnel** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

| | |
|---|---|
| **Small spill** | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| **Large spill** | Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. |

### 6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

## 7. Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

| | |
|---|---|
| **Protective measures** | Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| **Advice on general occupational hygiene** | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |

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

Keep under inert atmosphere.
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

| | |
|---|---|
| **Recommendations** | Not available. |
| **Industrial sector specific solutions** | Not available. |

# 8. Exposure controls/Personal protective equipment

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 8.1 Control parameters

### Occupational exposure limits

No exposure limit value known.

**Recommended monitoring procedures**

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Derived effect levels**

No DELs available.

**Predicted effect concentrations**

No PECs available.

## 8.2 Exposure controls

**Appropriate engineering controls**

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Individual protection measures

**Hygiene measures**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin protection**

**Hand protection**

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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

| | |
|---|---|
| **Other skin protection** | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| **Respiratory protection** | Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. |
| **Environmental exposure controls** | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |

# 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| **Appearance** | |
| **Physical state** | Liquid. |
| **Color** | Yellow. to Brown. |
| **Odor** | Not available. |
| **Odor threshold** | Not available. |
| **pH** | Not available. |
| **Melting point/freezing point** | 5 to 7°C |
| **Initial boiling point and boiling range** | 180 to 181 °C |
| **Flash point** | Closed cup: >110°C |
| **Evaporation rate** | Not available. |
| **Flammability (solid, gas)** | Not available. |
| **Burning time** | Not applicable. |
| **Burning rate** | Not applicable. |
| **Upper/lower flammability or explosive limits** | Not available. |
| **Vapor pressure** | Not available. |
| **Vapor density** | Not available. |
| **Density** | 3,322 g/cm³ |
| **Solubility(ies)** | Not available. |
| **Solubility at room temperature** | Insoluble [H2O] |
| **Partition coefficient: n-octanol/ water** | 2,3 |
| **Auto-ignition temperature** | Not available. |
| **Decomposition temperature** | 180°C |
| **Viscosity** | Not available. |
| **Explosive properties** | Not available. |
| **Oxidizing properties** | Not available. |

## 9.2 Other information

No additional information.

# 10. Stability and reactivity

## 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

## 10.2 Chemical stability

Air and light-sensitive.
Moisture-sensitive material.
Handle under inert gas.

## 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

## 10.4 Conditions to avoid

Exposure to light
exposure to heat
contact with air and moisture

## 10.5 Incompatible materials

Reactive or incompatible with the following materials:
oxidizing agents
alkalis
zinc

## 10.6 Hazardous decomposition products

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

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# 11. See toxicological information

## 11.1 Information on toxicological effects

### Acute toxicity

**Conclusion/Summary** Not available.

### Irritation/Corrosion

**Conclusion/Summary** Not available.

### Sensitizer

**Conclusion/Summary** Not available.

### Mutagenicity

**Conclusion/Summary** Not available.

### Carcinogenicity

**Conclusion/Summary** Not available.

### Reproductive toxicity

**Conclusion/Summary** Not available.

## Teratogenicity

**Conclusion/Summary** Not available.

**Information on the likely routes of exposure** Not available.

## Potential acute health effects

**Inhalation** Harmful if inhaled. May cause respiratory irritation.

**Skin contact** Toxic if swallowed.

**Ingestion** Toxic in contact with skin. Causes skin irritation.

**Eye contact** Causes serious eye irritation.

## Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation** Adverse symptoms may include the following:
respiratory tract irritation
coughing

**Ingestion** No specific data.

**Skin contact** Adverse symptoms may include the following:
irritation
redness

**Eye contact** Adverse symptoms may include the following:
pain or irritation
watering
redness

## Delayed and immediate effects and also chronic effects from short and long term exposure

### Short term exposure

**Potential immediate effects** Not available.

**Potential delayed effects** Not available.

### Long term exposure

**Potential immediate effects** Not available.

**Potential delayed effects** Not available.

## Potential chronic health effects

Not available.

**Conclusion/Summary** Not available.

**General** No known significant effects or critical hazards.

**Carcinogenicity** No known significant effects or critical hazards.

**Mutagenicity** No known significant effects or critical hazards.

**Teratogenicity** No known significant effects or critical hazards.

**Developmental effects** No known significant effects or critical hazards.

**Fertility effects** No known significant effects or critical hazards.

**Other information** Not available.

## 12. Ecological Information

### 12.1 Toxicity

**Conclusion/Summary** Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** Not available.

### 12.3 Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| diiodomethane | 2,3 | - | low |

### 12.4 Mobility in soil

**Soil/water partition coefficient ($K_{OC}$)** Not available.

**Mobility** Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT**

**vPvB**

### 12.6 Other adverse effects

No known significant effects or critical hazards.

## 13. Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

| | |
|---|---|
| **Methods of disposal** | The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. |
| **Special precautions** | This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. |

## 14. Transport information

| | ADR/RID | ADN | IMDG | IATA |
|---|---|---|---|---|
| **14.1 UN number** | UN2810 | UN2810 | UN2810 | UN2810 |
| **14.2 UN proper shipping name** | TOXIC LIQUID, ORGANIC, N.O.S. (Diiodomethane; 99%, stabilized with copper) | TOXIC LIQUID, ORGANIC, N.O.S. (Diiodomethane; 99%, stabilized with copper) | TOXIC LIQUID, ORGANIC, N.O.S. (Diiodomethane; 99%, stabilized with copper) | Toxic liquid, organic, n. o.s. (Diiodomethane; 99%, stabilized with copper) |
| **14.3 Transport hazard class(es)** | 6.1  | 6.1  | 6.1  | 6.1  |
| **14.4 Packing group** | III | III | III | III |
| **14.5 Environmental hazards** | No. | No. | No. | No. |
| **14.6 Special precautions for user** | **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. | **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. | **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. | **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. |
| **Additional information** | **Hazard identification number** 60<br>**Limited quantity** 5 L<br>**Special provisions** 274, 614<br>**Tunnel code** (E) | **Special provisions** 274, 614, 802 | **Emergency schedules** F-A, S-A<br>**Special provisions** 223, 274 | **Quantity limitation** Passenger and Cargo Aircraft: 60 L. Packaging instructions: 655. Cargo Aircraft Only: 220 L. Packaging instructions: 663. Limited Quantities - Passenger Aircraft: 2 L. Packaging instructions: Y642.<br>**Special provisions** A3, A4, A137 |

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not available.

## 15. Regulatory information

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

#### EU Regulation (EC) No. 1907/2006 (REACH)

**Annex XIV - List of substances subject to authorization**

**Substances of very high concern**

None of the components are listed.

| | |
|---|---|
| **Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** | Not applicable. |

#### Other EU regulations

| | |
|---|---|
| **Europe inventory** | This material is listed or exempted. |
| **Black List Chemicals** | |
| **Priority List Chemicals** | Not listed |
| **Industrial emissions (integrated pollution prevention and control) - Air** | Not listed |
| **Industrial emissions (integrated pollution prevention and control) - Water** | Not listed |

| | |
|---|---|
| **Chemical Weapons Convention List Schedule I Chemicals** | Not applicable. |
| **Chemical Weapons Convention List Schedule II Chemicals** | Not applicable. |
| **Chemical Weapons Convention List Schedule III Chemicals** | Not applicable. |

### 15.2 Chemical Safety Assessment

Not available.

## 16. Other information

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms**

ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|---|---|
| Acute Tox. 3, H301 | Expert judgment |
| Acute Tox. 3, H311 | Expert judgment |
| Acute Tox. 4, H332 | Expert judgment |
| Skin Irrit. 2, H315 | Expert judgment |
| Eye Irrit. 2, H319 | Expert judgment |
| STOT SE 3, H335 | Expert judgment |

**Full text of abbreviated H statements**

H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

**Full text of classifications [CLP/GHS]**

| | |
|---|---|
| Acute Tox. 3, H301 | ACUTE TOXICITY (oral) - Category 3 |
| Acute Tox. 3, H311 | ACUTE TOXICITY (dermal) - Category 3 |
| Acute Tox. 4, H332 | ACUTE TOXICITY (inhalation) - Category 4 |
| Eye Irrit. 2, H319 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 |
| Skin Irrit. 2, H315 | SKIN CORROSION/IRRITATION - Category 2 |
| STOT SE 3, H335 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |

**Full text of classifications [CLP/GHS]**

| | |
|---|---|
| Acute Tox. 3, H301 | ACUTE TOXICITY (oral) - Category 3 |
| Acute Tox. 3, H311 | ACUTE TOXICITY (dermal) - Category 3 |
| Acute Tox. 4, H332 | ACUTE TOXICITY (inhalation) - Category 4 |
| Eye Irrit. 2, H319 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 |
| Skin Irrit. 2, H315 | SKIN CORROSION/IRRITATION - Category 2 |
| STOT SE 3, H335 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |

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### Notice to reader

The above information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.