

# Material Safety Data Sheet



STANNOUS CHLORIDE AR (Tin (II) Chloride)

VERSION : 05  
REVISION DATE : 14/06/2025  
EFFECTIVE DATE : 16/06/2025

Product Code : 26220

Page 1 of 13

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name : STANNOUS CHLORIDE AR (Tin (II) Chloride)  
Product code : 26220  
Identification of the product : STANNOUS CHLORIDE AR (Tin (II) Chloride)  
CAS No : 10025-69-1  
EC No. : 231-868-0  
Synonyms : Tin (II) chloride Dihydrate, Tin dichloride Dihydrate

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

Identified uses : Laboratory chemicals, Manufacture of substances

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

Company identification  
MOLYCHEM INDIA LLP  
Office: Maker Tower 'E', 41-A2, 4th Floor, Above Maker Arcade, Cuffe Parade, Mumbai 400 005 (INDIA)  
Tel: +91 22 4066 8111, 2205 7772 .  
Email : [info@molychem.net](mailto:info@molychem.net)  
Works: Plot No. B/9, Badlapur M.I.D.C.,  
OPP.Shobhavat Textile Co., Kulgaon, Badlapur (E),  
Dist.-Thane-421 503.

### 1.4. Emergency telephone number

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm)

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4 H302  
Skin corrosion/irritation, Category 1, Sub-Category 1B H314

Full text of H- and EUH-statements: see section 16

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

Harmful if swallowed. Causes severe skin burns and eye damage.

### 2.2. Label elements

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

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VERSION : 05  
REVISION DATE : 14/06/2025  
EFFECTIVE DATE : 16/06/2025

Product Code : 26220

Page 2 of 13

Hazard pictograms (CLP)



GHS07

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP)

: P280 - Wear protective clothing, eye protection, face protection, protective gloves.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor.

## 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## 3. Composition/information on ingredients

### 3.1. Substances

Name : STANNOUS CHLORIDE AR (Tin (II) Chloride)

CAS-No : 10025-69-1

### 3.2. Mixtures

Not applicable

## 4. First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor

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VERSION : 05  
REVISION DATE : 14/06/2025  
EFFECTIVE DATE : 16/06/2025

**Product Code : 26220**

**Page 3 of 13**

|                                       |                                                                                                                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures after skin contact | : Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor. Call a physician immediately.                                       |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Call a physician immediately |
| First-aid measures after ingestion    | : Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Do not induce vomiting. Call a physician immediately.        |

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

|                                     |                                            |
|-------------------------------------|--------------------------------------------|
| Symptoms/effects                    | : Causes severe skin burns and eye damage. |
| Symptoms/effects after skin contact | : Burns.                                   |
| Symptoms/effects after eye contact  | : Serious damage to eyes                   |
| Symptoms/effects after ingestion    | : Harmful if swallowed. Burns.             |

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

Treat symptomatically.

## 5. Firefighting measures

### 5.1. Extinguishing media

|                                |                                                                                                                  |
|--------------------------------|------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media   | : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO <sub>2</sub> ). Water spray. Dry powder. Foam. |
| 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 | : Toxic fumes may be released. |
|--------------------------------------------------|--------------------------------|

### 5.3. Advice for firefighters

|                                |                                                                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|

## 6. Accidental release measures

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EFFECTIVE DATE : 16/06/2025

**Product Code : 26220**

Page 4 of 13

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

### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/ personal protection"

Emergency procedures : Stop release. Ventilate area.

## 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Mechanically recover the product. Clear up rapidly by scoop or vacuum.

Other information : Dispose of materials or solid residues at an authorized site.

## 6.4. Reference to other sections

For further information refer to section 13.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Always wash hands after handling the product.

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

Technical measures : Comply with applicable regulations.

Storage conditions : Store in original container. Keep container tightly closed. Store in a dry place. Protect from moisture. Store locked up. Store in a well-ventilated place. Keep cool.

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EFFECTIVE DATE : 16/06/2025

**Product Code : 26220**

**Page 5 of 13**

Storage away from : Direct sunlight. Air contact. Moisture.

## 7.3. Specific end use(s)

No additional information available

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

|                        |                                       |
|------------------------|---------------------------------------|
| Eye protection         | : Chemical goggles or safety glasses  |
| Hand protection        | : Wear protective gloves              |
| Skin protection        | : Wear suitable protective clothing   |
| Respiratory protection | : Wear appropriate mask.              |
| Thermal hazards        | : No additional information available |

#### 8.2.3. Environmental exposure controls

Avoid release to the environment

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                |                                  |
|----------------|----------------------------------|
| Physical state | : Solid                          |
| Appearance     | : crystals or crystalline powder |

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**Product Code : 26220**

**Page 6 of 13**

|                                                 |                                  |
|-------------------------------------------------|----------------------------------|
| Molecular mass                                  | : 225.63 g/mol                   |
| Colour                                          | : Colourless or white            |
| Odour                                           | : Odourless                      |
| Odour threshold                                 | : No data available              |
| pH                                              | : No data available              |
| Relative evaporation rate                       | : No data available              |
| Melting point                                   | : 37 – 38 °C                     |
| Freezing point                                  | : Not applicable                 |
| Boiling point                                   | : 652 °C                         |
| Flash point                                     | : Not applicable                 |
| Auto-ignition temperature                       | : Not applicable                 |
| 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                                | : No data available              |
| Density                                         | : 2.71 g/cm <sup>3</sup> at 20°C |
| Solubility                                      | : Water: Soluble in water        |
| Partition coefficient n-octanol/water (Log Pow) | : No data available              |
| Viscosity, kinematic                            | : Not applicable                 |
| Viscosity, dynamic                              | : No data available              |
| Explosive properties                            | : No data available              |
| Oxidising properties                            | : No data available              |
| Explosive limits                                | : Not applicable                 |

## 9.2. Other information

No additional information available

## 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 normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

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Product Code : 26220

Page 7 of 13

## 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

## 11. Toxicological information

### 11.1. Information on toxicological effects

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Acute toxicity (oral)             | : Harmful if swallowed.               |
| Acute toxicity (dermal)           | : Not classified                      |
| Acute toxicity (inhalation)       | : Not classified                      |
| Skin corrosion/irritation         | : Causes severe skin burns.           |
| Serious eye damage/irritation     | : Assumed to cause serious eye damage |
| Respiratory or skin sensitisation | : Not classified                      |
| Germ cell mutagenicity            | : Not classified                      |
| Carcinogenicity                   | : Not classified                      |
| Reproductive toxicity             | : Not classified                      |
| STOT-single exposure              | : Not classified                      |
| STOT-repeated exposure            | : Not classified                      |
| Aspiration hazard                 | : Not classified                      |

## 12. Ecological information

### 12.1. Toxicity

|                                                           |                                                                                |
|-----------------------------------------------------------|--------------------------------------------------------------------------------|
| Ecology - general                                         | Before neutralisation, the product may represent a danger to aquatic organisms |
| Hazardous to the aquatic environment, short-term (acute)  | Not classified                                                                 |
| Hazardous to the aquatic environment, long-term (chronic) | Not classified                                                                 |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

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EFFECTIVE DATE : 16/06/2025

**Product Code : 26220**

**Page 8 of 13**

## 12.6 Other adverse effects

No additional information available

## 13. Disposal considerations

### 13.1. Waste treatment methods

|                                            |                                                                                                                                                               |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions                                                                  |
| Product/Packaging disposal recommendations | : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |

## 14. Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

### 14.1. UN number

|               |           |
|---------------|-----------|
| UN-No. (ADR)  | : UN 3260 |
| UN-No. (IMDG) | : UN 3260 |
| UN-No. (IATA) | : UN 3260 |
| UN-No. (ADN)  | : UN 3260 |
| UN-No. (RID)  | : UN 3260 |

### 14.2. UN proper shipping name

|                                       |                                                                                                |
|---------------------------------------|------------------------------------------------------------------------------------------------|
| Proper Shipping Name (ADR)            | : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.                                                   |
| Proper Shipping Name (IMDG)           | : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.                                                   |
| Proper Shipping Name (IATA)           | : Corrosive solid, acidic, inorganic, n.o.s.                                                   |
| Proper Shipping Name (ADN)            | : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.                                                   |
| Proper Shipping Name (RID)            | : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.                                                   |
| Transport document description (ADR)  | : UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (STANNOUS CHLORIDE DIHYDRATE), 8, II, (E) |
| Transport document description (IMDG) | : UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, II                                    |
| Transport document description (IATA) | : UN 3260 Corrosive solid, acidic, inorganic, n.o.s. (STANNOUS CHLORIDE DIHYDRATE), 8, II      |
| Transport document description (ADN)  | : UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, II                                    |
| Transport document description (RID)  | : UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, II                                    |

### 14.3. Transport hazard class(es)

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VERSION : 05  
REVISION DATE : 14/06/2025  
EFFECTIVE DATE : 16/06/2025

**Product Code : 26220**

Page 9 of 13

## ADR

Transport hazard class(es) (ADR) : 8

Danger labels (ADR) : 8

## IMDG

Transport hazard class(es) (IMDG) : 8

Danger labels (IMDG) : 8

## IATA

Transport hazard class(es) (IATA) : 8

Danger labels (IATA) : 8

## ADN

Transport hazard class(es) (ADN) : 8

Danger labels (ADN) : 8

## RID

Transport hazard class(es) (RID) : 8

Danger labels (RID) : 8

### 14.4. Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

Packing group (RID) : II

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : C2

Limited quantities (ADR) : 1kg

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P002, IBC08

Mixed packing provisions (ADR) : MP10

Portable tank and bulk container : T3

instructions (ADR)

Portable tank and bulk container special : TP33

provisions (ADR)

Tank code (ADR) : SGAN

Vehicle for tank carriage : AT

Transport category (ADR) : 2

Hazard identification number (Kemler No.) : 80

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EFFECTIVE DATE : 16/06/2025

**Product Code : 26220**

**Page 10 of 13**

Tunnel restriction code (ADR) : E  
EAC code : 2X  
**Transport by sea**  
Limited quantities (IMDG) : 1 kg  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P002  
IBC packing instructions (IMDG) : IBC08  
Tank instructions (IMDG) : T3  
Tank special provisions (IMDG) : TP33  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-B  
Stowage category (IMDG) : B  
MFAG-No : 154

## **Air transport**

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y844  
PCA limited quantity max net quantity (IATA) : 5kg  
PCA packing instructions (IATA) : 859  
PCA max net quantity (IATA) : 15kg  
CAO packing instructions (IATA) : 863  
CAO max net quantity (IATA) : 50kg  
ERG code (IATA) : 8L

## **Inland waterway transport**

Classification code (ADN) : C2  
Limited quantities (ADN) : 1 kg  
Excepted quantities (ADN) : E2  
Equipment required (ADN) : PP, EP  
Number of blue cones/lights (ADN) : 0

## **Rail transport**

Classification code (RID) : C2  
Limited quantities (RID) : 1kg  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P002, IBC08  
Mixed packing provisions (RID) : MP10  
Portable tank and bulk container instructions (RID) : T3  
Portable tank and bulk container special provisions (RID) : TP33  
Tank codes for RID tanks (RID) : SGAN  
Transport category (RID) : 2

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VERSION : 05  
REVISION DATE : 14/06/2025  
EFFECTIVE DATE : 16/06/2025

**Product Code : 26220**

**Page 11 of 13**

Colis express (express parcels) (RID) : CE10  
Hazard identification number (RID) : 80

## **14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable

## **15. Regulatory information**

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

#### **15.1.1 EU-Regulations**

No REACH Annex XVII restrictions

STANNOUS CHLORIDE is not on the REACH Annex XIV List

STANNOUS CHLORIDE is not on the REACH Candidate List

STANNOUS CHLORIDE is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

STANNOUS CHLORIDE is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

STANNOUS CHLORIDE is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

#### **15.1.2. National regulations**

##### **Germany**

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV; ID No. 495).

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

##### **Netherlands**

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed

SZW-lijst van reprotoxische stoffen – : The substance is not listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – : The substance is not listed

Ontwikkeling

##### **Denmark**

Danish National Regulations : Young people below the age of 18 years are not

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# Material Safety Data Sheet



STANNOUS CHLORIDE AR (Tin (II) Chloride)

VERSION : 05  
REVISION DATE : 14/06/2025  
EFFECTIVE DATE : 16/06/2025

Product Code : 26220

Page 12 of 13

allowed to use the product

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## 16. Other information

| Abbreviations and acronyms |                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------|
| ADN                        | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                        | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE                        | Acute Toxicity Estimate                                                                         |
| BCF                        | Bioconcentration factor                                                                         |
| BLV                        | Biological limit value                                                                          |
| BOD                        | Biochemical oxygen demand                                                                       |
| COD                        | Chemical oxygen demand                                                                          |
| COD                        | Chemical oxygen demand                                                                          |
| DMEL                       | Derived Minimal Effect level                                                                    |
| DNEL                       | Derived-No Effect Level                                                                         |
| EC-No.                     | European Community number                                                                       |
| EC50                       | Median effective concentration                                                                  |
| EN                         | European Standard                                                                               |
| IARC                       | International Agency for Research on Cancer                                                     |
| IATA                       | International Air Transport Association                                                         |
| IMDG                       | International Maritime Dangerous Goods                                                          |
| LC50                       | Median lethal concentration                                                                     |
| LD50                       | Median lethal dose                                                                              |
| LOAEL                      | Lowest Observed Adverse Effect Level                                                            |
| NOAEC                      | No-Observed Adverse Effect Concentration                                                        |
| NOAEL                      | No-Observed Adverse Effect Level                                                                |
| NOEC                       | No-Observed Effect Concentration                                                                |
| OECD                       | Organisation for Economic Co-operation and Development                                          |
| OEL                        | Occupational Exposure Limit                                                                     |
| PBT                        | Persistent Bioaccumulative Toxic                                                                |
| PNEC                       | Predicted No-Effect Concentration                                                               |
| RID                        | Regulations concerning the International Carriage of Dangerous Goods by Rail                    |
| SDS                        | Safety Data Sheet                                                                               |
| STP                        | Sewage treatment plant                                                                          |

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**Page 13 of 13**

|                                           |                                                                        |
|-------------------------------------------|------------------------------------------------------------------------|
| ThOD                                      | Theoretical oxygen demand (ThOD)                                       |
| TLM                                       | Median Tolerance Limit                                                 |
| VOC                                       | Volatile Organic Compounds                                             |
| CAS-No.                                   | Chemical Abstract Service number                                       |
| N.O.S.                                    | Not Otherwise Specified                                                |
| vPvB                                      | Very Persistent and Very Bioaccumulative                               |
| ED                                        | Endocrine disrupting properties                                        |
|                                           |                                                                        |
| <b>Full text of H- and EUH-statements</b> |                                                                        |
| Eye Irrit. 2                              | Serious eye damage/eye irritation, Category 2                          |
| Flam. Liq. 2                              | Flammable liquids, Category 2                                          |
| STOT SE 3                                 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H225                                      | Highly flammable liquid and vapour.                                    |
| H319                                      | Causes serious eye irritation.                                         |
| H336                                      | May cause drowsiness or dizziness.                                     |
| EUH066                                    | Repeated exposure may cause skin dryness or cracking.                  |

Safety Data Sheet (SDS), EU 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.

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