

# Material Safety Data Sheet



**DICYCLOHEXYLAMINE 99% FOR SYNTHESIS**

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

Product Code : 14142

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

### 1.1. Product identifier

Trade name : DICYCLOHEXYLAMINE 99% FOR SYNTHESIS  
Product code : 14142  
Identification of the product : DICYCLOHEXYLAMINE 99% FOR SYNTHESIS  
CAS No : 101-83-7  
EC Index-No. : 612-066-00-3  
EC No. : 202-980-7  
Synonyms : N-Cyclohexylcyclohexanamine

### 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  
Hazardous to the aquatic environment – Acute Hazard, Category 1 H400  
Hazardous to the aquatic environment – Chronic Hazard, Category 1 H410

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. Very toxic to aquatic life with long

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lasting effects.

## 2.2. Label elements

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

Hazard pictograms (CLP)



GHS07



GHS05



GHS09

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P273 - Avoid release to the environment.

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

P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

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

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

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

## 3. Composition/information on ingredients

### 3.1. Substances

Name : DICYCLOHEXYLAMINE 99% FOR SYNTHESIS

CAS-No : 101-83-7

### 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

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|                                       |                                                                                                                                                                                                                                                                              |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures after skin contact | breathing. Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.<br>: 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.                                                                                        |
| First-aid measures for first aider    | : First aid workers will be equipped with suitable personal protective equipment.                                                                                                                                                                                            |

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

|                                     |                                            |
|-------------------------------------|--------------------------------------------|
| Symptoms/effects                    | : Causes severe skin burns and eye damage. |
| Symptoms/effects after inhalation   | : None under normal conditions.            |
| 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   | : Carbon dioxide. Dry powder. Foam. Water spray. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

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

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| Fire hazard                                      | : No fire hazard.              |
| Explosion hazard                                 | : No direct explosion hazard   |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

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## 5.3 Advice for firefighters

Firefighting instructions

: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting

: Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## 6. Accidental release measures

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

General measures

: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

#### 6.1.1. For non-emergency personnel

Protective equipment

: Wear recommended personal protective equipment.

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

: Ventilate area. Evacuate unnecessary personnel. Stop leak if safe to do so

### 6.2. Environmental precautions

Avoid release to the environment. Very toxic to aquatic life with long lasting effects.

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

Methods for cleaning up

: Take up liquid spill into absorbent material. Collect spillage. On land, sweep or shovel into suitable containers.

Other information

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

### 6.4. Reference to other sections

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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. Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures

: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Always wash hands after handling the product.

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

Technical measures

: Keep in a cool, well-ventilated place away from heat.

Storage conditions

: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Storage away from

: High temperature. Heat. Direct sunlight.

### 7.3. Specific end use(s)

No additional information available

## 8. Exposure controls/personal protection

### 8.1. Control parameters

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.

#### 8.2.3. Environmental exposure controls

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Avoid release to the environment

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                 |                                                                                             |
|-------------------------------------------------|---------------------------------------------------------------------------------------------|
| Physical state                                  | : Liquid                                                                                    |
| Appearance                                      | : clear liquid                                                                              |
| Molecular mass                                  | : 181.32 g/mol                                                                              |
| Colour                                          | : colourless to pale yellow                                                                 |
| Odour                                           | : fishy/amine odor.                                                                         |
| Odour threshold                                 | : Not available                                                                             |
| pH                                              | : 11 at 20 °C                                                                               |
| Melting point                                   | : Not applicable                                                                            |
| Freezing point                                  | : -2 °C                                                                                     |
| Boiling point                                   | : 255.8 °C                                                                                  |
| Flash point                                     | : 105 °C                                                                                    |
| Auto-ignition temperature                       | : 255 °C                                                                                    |
| Decomposition temperature                       | : Not available                                                                             |
| Flammability (solid, gas)                       | : Non flammable.                                                                            |
| Vapour pressure                                 | : 16 hPa at 37.7 °C                                                                         |
| Relative vapour density at 20 °C                | : 6.25 (Air = 1)                                                                            |
| Relative density                                | : Not available                                                                             |
| Density                                         | : 0.911- 0.914g                                                                             |
| Solubility                                      | : Water: 0.8 g/l at 25 °C - Sparingly miscible with water<br>Ethanol: Miscible with Ethanol |
| Partition coefficient n-octanol/water (Log Pow) | : 0.4                                                                                       |
| Viscosity, kinematic                            | : Not available                                                                             |
| Explosive limits                                | : Not available                                                                             |

### 9.2. Other information

Refractive index (n)<sup>20</sup><sub>D</sub> : 1.483 -1.485

## 10. Stability and reactivity

### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

### 10.2. Chemical stability

Stable under normal conditions.

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## **10.3. Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

## **10.4. Conditions to avoid**

High temperature. Heat. Direct sunlight.

## **10.5. Incompatible materials**

No additional information available

## **10.6 Hazardous decomposition products**

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

## **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                                         | : Very toxic to aquatic life with long lasting effects. |
| Ecology - water                                           | : Very toxic to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute)  | : Very toxic to aquatic life.                           |
| Hazardous to the aquatic environment, long-term (chronic) | : Very toxic to aquatic life with long lasting effects. |

### **12.2. Persistence and degradability**

Rapidly degradable

### **12.3. Bioaccumulative potential**

No additional information available

### **12.4. Mobility in soil**

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No additional information available

## 12.5 Results of PBT and vPvB assessment

No additional information available

## 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.                                                                                                                          |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                                                                                                                                             |
| 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. Disposal must be done according to official regulations. |
| Additional information                     | : Do not re-use empty containers.                                                                                                                                                                                      |

## 14. Transport information

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

### 14.1. UN number

|               |           |
|---------------|-----------|
| UN-No. (ADR)  | : UN 2565 |
| UN-No. (IMDG) | : UN 2565 |
| UN-No. (IATA) | : UN 2565 |
| UN-No. (ADN)  | : UN 2565 |
| UN-No. (RID)  | : UN 2565 |

### 14.2. UN proper shipping name

|                                       |                                                                                 |
|---------------------------------------|---------------------------------------------------------------------------------|
| Proper Shipping Name (ADR)            | : DICYCLOHEXYLAMINE                                                             |
| Proper Shipping Name (IMDG)           | : DICYCLOHEXYLAMINE                                                             |
| Proper Shipping Name (IATA)           | : Dicyclohexylamine                                                             |
| Proper Shipping Name (ADN)            | : DICYCLOHEXYLAMINE                                                             |
| Proper Shipping Name (RID)            | : DICYCLOHEXYLAMINE                                                             |
| Transport document description (ADR)  | : UN 2565 DICYCLOHEXYLAMINE, 8, III, (E), ENVIRONMENTALLY HAZARDOUS             |
| Transport document description (IMDG) | : UN 2565 DICYCLOHEXYLAMINE, 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS |
| Transport document description (IATA) | : UN 2565 Dicyclohexylamine, 8, III,                                            |

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Transport document description (ADN) : ENVIRONMENTALLY HAZARDOUS  
UN 2565 DICYCLOHEXYLAMINE, 8, III,  
ENVIRONMENTALLY HAZARDOUS  
Transport document description (RID) : UN 2565 DICYCLOHEXYLAMINE, 8, III,  
ENVIRONMENTALLY HAZARDOUS

## 14.3. Transport hazard class(es)

### 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) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

Packing group (RID) : III

## 14.5. Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : Yes

Other information : No supplementary information available

## 14.6. Special precautions for user

### Overland transport

Classification code (ADR) : C7

Limited quantities (ADR) : 51

Excepted quantities (ADR) : E1

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

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container : T4

instructions (ADR)

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Portable tank and bulk container special provisions (ADR) : TP1  
Tank code (ADR) : L4BN  
Vehicle for tank carriage : AT  
Transport category (ADR) : 3  
Hazard identification number (Kemler No.) : 80  
Tunnel restriction code (ADR) : E  
EAC code : 2X

## **Transport by sea**

Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P001, LP01  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP1  
Stowage category (IMDG) : A  
MFAG-No : 153

## **Air transport**

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y841  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 852  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 856  
CAO max net quantity (IATA) : 60L  
ERG code (IATA) : 8L

## **Inland waterway transport**

Classification code (ADN) : C7  
Limited quantities (ADN) : 5 L  
Excepted quantities (ADN) : E1  
Equipment required (ADN) : PP, EP  
Number of blue cones/lights (ADN) : 0

## **Rail transport**

Classification code (RID) : C7  
Limited quantities (RID) : 5L  
Excepted quantities (RID) : E1  
Packing instructions (RID) : P001, IBC03, LP01, R001  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T4

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Portable tank and bulk container special provisions (RID) : TP1  
Tank codes for RID tanks (RID) : L4BN  
Transport category (RID) : 3  
Colis express (express parcels) (RID) : CE8  
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

##### EU restriction list (REACH Annex XVII)

| Reference code Applicable on | Reference code Applicable on    |
|------------------------------|---------------------------------|
| 3(b)                         | DICYCLOHEXYLAMINE FOR SYNTHESIS |
| 3(c)                         | DICYCLOHEXYLAMINE FOR SYNTHESIS |

Not listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the REACH Candidate List

Not listed on the PIC list (Regulation EU 649/2012)

Not listed on the POP list (Regulation EU 2019/1021)

Not listed on the POP list (Regulation EU 2019/1021)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

##### Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV; ID No. 1226).

Major Accidents Ordinance (12. BImSchV) : Is not subject to the Major Accidents Ordinance (12. BImSchV)

##### Netherlands

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

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

#### MOLYCHEM INDIA LLP

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Works : Unit I - Plot No. B/9, Unit II - Plot No. B/11, Badlapur M.I.D.C., Opp. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503.

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# Material Safety Data Sheet



**DICYCLOHEXYLAMINE 99% FOR SYNTHESIS**

VERSION : 05  
REVISION DATE : 14/06/2025  
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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 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                                                                |

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|                                           |                                                                              |
|-------------------------------------------|------------------------------------------------------------------------------|
| 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                                                       |
| 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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