

# Material Safety Data Sheet



**AMMONIUM NICKEL SULPHATE  
HEXAHYDRATE LR**

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

Product Code : 12170

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

### 1.1. Product identifier

**Trade name** : AMMONIUM NICKEL SULPHATE  
HEXAHYDRATE LR  
**Product code** : 12170  
**Identification of the product** : AMMONIUM NICKEL SULPHATE  
HEXAHYDRATE LR  
**CAS No** : 7785-20-8  
**EC Index-No.** : 028-017-00-9  
**EC No.** : 239-793-5  
**Synonyms** : Nickel ammonium sulphate Hexahydrate, Diammonium  
nickel bis(sulphate) hexahydrate

### 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  |
| Acute toxicity (inhalation:gas) Category 4                     | H332  |
| Respiratory sensitisation, Category 1                          | H334  |
| Skin sensitisation, Category 1                                 | H317  |
| Germ cell mutagenicity, Category 2                             | H341  |
| Carcinogenicity (inhalation) Category 1A                       | H350i |
| Reproductive toxicity, Category 1A                             | H360D |
| Specific target organ toxicity – Repeated exposure, Category 1 | H372  |

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

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

## Adverse physicochemical, human health and environmental effects

May cause cancer. Suspected of causing genetic defects. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Harmful if inhaled. Harmful if swallowed. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Very toxic to aquatic life with long lasting effects.

## 2.2. Label elements

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



GHS06      GHS07      GHS09

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H302+H332 - Harmful if swallowed or if inhaled.  
H317 - May cause an allergic skin reaction.  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H341 - Suspected of causing genetic defects.  
H350i - May cause cancer by inhalation.  
H360D - May damage the unborn child.  
H372 - Causes damage to organs through prolonged or repeated exposure.  
H410 - Very toxic to aquatic life with long lasting effects.  
: P201 - Obtain special instructions before use.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
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.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.

Precautionary statements (CLP)

## 2.3. Other hazards

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

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## 3. Composition/information on ingredients

### 3.1. Substances

Name : AMMONIUM NICKEL SULPHATE  
HEXAHYDRATE LR  
CAS-No : 7785-20-8

### 3.2. Mixtures

Not applicable

## 4. First aid measures

### 4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.  
Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for  
breathing. If breathing is difficult, remove victim to fresh  
air and keep at rest in a position comfortable for  
breathing. Call a POISON CENTER/doctor. Call a poison  
center or a doctor if you feel unwell.

First-aid measures after skin contact : Wash with plenty of water/.... Get medical  
advice/attention. Wash contaminated clothing before  
reuse. Wash skin with plenty of water. Take off  
contaminated clothing. If skin irritation or rash occurs:  
Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove  
contact lenses, if present and easy to do. Continue rinsing.  
Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER/doctor if you feel  
unwell. Call a poison center or a doctor if you feel unwell.

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 after inhalation : Harmful if inhaled. May cause allergy or asthma  
symptoms or breathing difficulties if inhaled. May cause  
cancer by inhalation.

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : None under normal conditions. Dust from this product  
may cause eye irritation.

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Symptoms/effects after ingestion

: Harmful if swallowed.

Chronic symptoms

: May damage the unborn child. May damage fertility or the unborn child.

#### 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.

##### 5.3. Advice for firefighters

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

: Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

##### 6.1.1. For non-emergency personnel

Emergency procedures

: Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene. 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

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Emergency procedures : equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/ personal protection"  
: Ventilate area. Evacuate unnecessary personnel.

## 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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

Methods for cleaning up : Mechanically recover the product. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers. Notify authorities if product enters sewers or public waters.

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 vapours. Avoid contact with skin and eyes. Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapours/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking

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and when leaving work. Separate working clothes from town clothes. Launder separately. 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 in original container. Store locked up.  
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

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

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 fine crystalline powder.  
Molecular mass : 394.97 g/mol  
Colour : Blue or bluish green  
Odour : Odourless.  
Odour threshold : Not available  
pH(5% aqueous solution) : 4 - 6  
Melting point : 85 – 89 °C

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|   |   |
|---|---|
| Freezing point                                  | : Not applicable  |
| Boiling point                                   | : Not available   |
| Flash point                                     | : Not applicable  |
| Auto-ignition temperature                       | : Not applicable  |
| Decomposition temperature                       | : Not available   |
| Flammability (solid, gas)                       | : Non flammable.  |
| Vapour pressure                                 | : Not available   |
| Relative vapour density at 20 °C                | : Not applicable  |
| Relative density                                | : Not available   |
| Density   | : 1.9 g/cm  |
| Solubility                                      | : Water: Partially soluble<br>Ethanol: Insoluble in Ethanol |
| Partition coefficient n-octanol/water (Log Kow) | : Not available   |
| Viscosity, kinematic                            | : Not applicable  |
| 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

### 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.

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|                                   |   |
|-----------------------------------|---|
| Acute toxicity (dermal)           | : Not classified  |
| Acute toxicity (inhalation)       | : Inhalation:gas: Harmful if inhaled.   |
| Skin corrosion/irritation         | : Not classified  |
| Additional information            | : Not classified  |
| Serious eye damage/irritation     | : Not classified  |
| Respiratory or skin sensitisation | : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. |
| Germ cell mutagenicity            | : Suspected of causing genetic defects.   |
| Carcinogenicity                   | : May cause cancer by inhalation.   |
| Reproductive toxicity             | : May damage the unborn child.  |
| STOT-single exposure              | : Not classified  |
| STOT-repeated exposure            | : Causes damage to organs through prolonged or repeated exposure.   |
| Aspiration hazard                 | : Not classified  |

## 12. Ecological information

### 12.1. Toxicity

|   |   |
|---|---|
| Ecology - general   | Very toxic to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute)  | Not classified  |
| Hazardous to the aquatic environment, long-term (chronic) | Very toxic to aquatic life with long lasting effects  |

### 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

### 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

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Waste treatment methods : collector's sorting instructions  
: 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. 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 3077  
UN-No. (IMDG) : UN 3077  
UN-No. (IATA) : UN 3077  
UN-No. (ADN) : UN 3077  
UN-No. (RID) : UN 3077

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Proper Shipping Name (IATA) : Environmentally hazardous substance, solid, n.o.s.

Proper Shipping Name (ADN) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Proper Shipping Name (RID) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Transport document description (ADR) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (AMMONIUM NICKEL SULPHATE HEXAHYDRATE), 9, III, (-)

Transport document description(IMDG) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (AMMONIUM NICKEL SULPHATE HEXAHYDRATE), 9, III, MARINE POLLUTANT

Transport document description (IATA) : UN 3077 Environmentally hazardous substance, solid, n.o.s. (AMMONIUM NICKEL SULPHATE HEXAHYDRATE), 9, III

Transport document description (ADN) : UN 3077 ENVIRONMENTALLY HAZARDOUS

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Transport document description (RID) : SUBSTANCE, SOLID, N.O.S., 9, III  
: UN 3077 ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, SOLID, N.O.S., 9, III

## 14.3. Transport hazard class(es)

### ADR

Transport hazard class(es) (ADR) : 9

Danger labels (ADR) : 9

### IMDG

Transport hazard class(es) (IMDG) : 9

Danger labels (IMDG) : 9

### IATA

Transport hazard class(es) (IATA) : 9

Danger labels (IATA) : 9

### ADN

Transport hazard class(es) (ADN) : 9

Danger labels (ADN) : 9

### RID

Transport hazard class(es) (RID) : 9

Danger labels (RID) : 9

## 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) : M7

Limited quantities (ADR) : 5kg

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Mixed packing provisions (ADR) : MP10

Portable tank and bulk container

instructions (ADR)

Portable tank and bulk container special : TP33

provisions (ADR)

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Tank code (ADR) : SGAV, LGBV  
Vehicle for tank carriage : AT  
Transport category (ADR) : 3  
Hazard identification number (Kemler No.) : 90  
Tunnel restriction code (ADR) : -  
EAC code : 2Z

### Transport by sea

Limited quantities (IMDG) : 5 kg  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : LP02, P002  
IBC packing instructions (IMDG) : IBC08  
Tank instructions (IMDG) : BK1, BK2, BK3, T1  
Tank special provisions (IMDG) : TP33  
Stowage category (IMDG) : A  
MFAG-No : 171

### Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y956  
PCA limited quantity max net quantity (IATA) : 30kgG  
PCA packing instructions (IATA) : 956  
PCA max net quantity (IATA) : 400kg  
CAO packing instructions (IATA) : 956  
CAO max net quantity (IATA) : 400kg  
ERG code (IATA) : 9L

### Inland waterway transport

Classification code (ADN) : M7  
Limited quantities (ADN) : 5 kg  
Excepted quantities (ADN) : E1  
Carriage permitted (ADN) : T\* B\*\*  
Equipment required (ADN) : PP, A  
Number of blue cones/lights (ADN) : 0

### Rail transport

Classification code (RID) : M7  
Limited quantities (RID) : 5kg  
Excepted quantities (RID) : E1  
Packing instructions (RID) : P002, IBC08, LP02, R001  
Mixed packing provisions (RID) : MP10  
Portable tank and bulk container instructions (RID) : T1, BK1, BK2, BK3  
Portable tank and bulk container special : TP33

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# Material Safety Data Sheet



**AMMONIUM NICKEL SULPHATE  
HEXAHYDRATE LR**

VERSION : 05  
REVISION DATE : 14/06/2025  
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provisions (RID)

Tank codes for RID tanks (RID) : SGAV, LGBV

Transport category (RID) : 3

Colis express (express parcels) (RID) : CE11

Hazard identification number (RID) : 90

## 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

Not listed on REACH Annex XVII

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 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 3, Highly hazardous to water (Classification according to AwSV).

Hazardous Incident 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

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

SZW-lijst van reprotoxische stoffen –

Vruchtbaarheid

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

Ontwikkeling

##### Denmark

Classification remarks : Emergency management guidelines for the storage

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Danish National Regulations

of flammable liquids must be followed  
: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

## 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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