



## Lochinvar Descale Liquid

Version number: GHS 2.0  
Replaces version of: 2023-03-10 (GHS 1)

Revision: 2025-08-21

### - Precautionary statements

P260 Do not breathe mist/vapours.  
 P280 Wear protective gloves/eye protection.  
 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 [or shower].  
 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/doctor.

### - Supplemental hazard information

EUH071 Corrosive to the respiratory tract.

### - Hazardous ingredients for labelling

L-(+)-lactic acid, phosphoric acid ... %

## 2.3 Other hazards

### Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0,1\%$ .

### Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

| Name of substance     | Identifier   | Wt%       | Classification acc. to GHS                                       |
|-----------------------|--|-----------|--|
| L-(+)-lactic acid     | CAS No 79-33-4<br><br>EC No 201-196-2<br><br>Index No 607-743-00-5   | 25 - < 50 | Skin Corr. 1C / H314<br>Eye Dam. 1 / H318                        |
| phosphoric acid ... % | CAS No 7664-38-2<br><br>EC No 231-633-2<br><br>Index No 015-011-00-6 | 5 - < 10  | Met. Corr. 1 / H290<br>Skin Corr. 1B / H314<br>Eye Dam. 1 / H318 |
| Citric acid           | CAS No 77-92-9<br><br>EC No 201-069-1<br><br>Index No 607-750-00-3   | 5 - < 10  | Eye Irrit. 2 / H319<br>STOT SE 3 / H335                          |

| Name of substance     | Specific Conc. Limits  | M-Factors | ATE | Exposure route |
|-----------------------|--|-----------|-----|----------------|
| phosphoric acid ... % | Skin Corr. 1B; H314: C $\geq 25\%$<br>Skin Irrit. 2; H315: 10 % $\leq C < 25\%$<br>Eye Dam. 1; H318: C $\geq 25\%$<br>Eye Irrit. 2; H319: 10 % $\leq C < 25\%$ | -         | -   |                |

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### Remarks

For full text of abbreviations: see SECTION 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following inhalation

Provide fresh air.

#### Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Call a doctor.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. IF exposed or concerned: Call a doctor.

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

Following eye contact. Following skin contact. Localised redness. Irritability. Causes tears.

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

none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Non-combustible

#### Unsuitable extinguishing media

Not useful, not meaningful, not applicable

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

none

#### Hazardous combustion products

No known hazardous decomposition products

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Wear self-contained breathing apparatus. Chemical protection suit.

## SECTION 6: Accidental release measures

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

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water.

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

#### Advice on how to contain a spill

Bunding

#### Advice on how to clean up a spill

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Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

**6.4 Reference to other sections**

Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Recommendations

- Measures to prevent fire as well as aerosol and dust generation  
Use local and general ventilation.
- Handling of incompatible substances or mixtures  
Do not mix with alkali.
- Keep away from  
Caustic solutions

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Keep away from food, drink and animal feedingstuffs.

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

Control of effects

Protect against external exposure, such as  
frost

- Packaging compatibilities  
Only packagings which are approved (e.g. acc. to ADR) may be used.

**7.3 Specific end use(s)**

See section 16 for a general overview.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

| Occupational exposure limit values (Workplace Exposure Limits) |                      |           |            |           |                          |            |                           |                 |                                |          |           |
|--|----------------------|-----------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|-----------|
| Country  | Name of agent        | CAS No    | Identifier | TWA [ppm] | TWA [mg/m <sup>3</sup> ] | STEL [ppm] | STEL [mg/m <sup>3</sup> ] | Ceiling-C [ppm] | Ceiling-C [mg/m <sup>3</sup> ] | Notation | Source    |
| GB   | orthophosphoric acid | 7664-38-2 | WEL        |           | 1                        |            |                           | 2               |                                |          | EH40/2005 |

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours  
time-weighted average (unless otherwise specified)

**8.2 Exposure controls**

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

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**Eye/face protection**

Wear eye/face protection.

**Skin protection****- Hand protection**

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**- Type of material**

CR: chloroprene (chlorobutadiene) rubber, IIR: isobutene-isoprene (butyl) rubber, FKM: fluoro-elastomer, Nitrile

**- Material thickness**

>0.5mm

**- Breakthrough times of the glove material**

>480 minutes (permeation: level 6)

**- Other protection measures**

Wash hands thoroughly after handling.

**Respiratory protection**

Use local and general ventilation.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

|  |   |
|--|---|
| Physical state   | liquid  |
| Colour   | red   |
| Odour  | characteristic  |
| Melting point/freezing point                             | 0 °C at 1,013 hPa   |
| Boiling point or initial boiling point and boiling range | 100 °C at 1,013 hPa   |
| Flammability   | non-combustible   |
| Lower and upper explosion limit                          | not relevant  |
| Flash point  | not relevant  |
| Auto-ignition temperature                                | not applicable  |
| Decomposition temperature                                | not relevant  |
| pH (value)   | 1 (in aqueous solution: 100 vol%, 20 °C) 2.4 (in aqueous solution: 1 vol%) (acid) |
| Kinematic viscosity                                      | not determined  |

**Solubility(ies)**

|                  |                            |
|------------------|----------------------------|
| Water solubility | miscible in any proportion |
|------------------|----------------------------|

**Partition coefficient**

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|   |                                   |
|---|-----------------------------------|
| Partition coefficient n-octanol/water (log value) | this information is not available |
|---|-----------------------------------|

|                 |                |
|-----------------|----------------|
| Vapour pressure | not determined |
|-----------------|----------------|

Density and/or relative density

|                         |   |
|-------------------------|---|
| Density                 | 1.2 g/cm <sup>3</sup> at 20 °C                |
| Relative vapour density | information on this property is not available |

|                          |                       |
|--------------------------|-----------------------|
| Particle characteristics | not relevant (liquid) |
|--------------------------|-----------------------|

## 9.2 Other information

|  |  |
|--|--|
| Information with regard to physical hazard classes | hazard classes acc. to GHS (physical hazards):<br>not relevant |
|  | there is no additional information                             |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

Oxidisers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**Classification acc. to GHS**

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful in contact with skin.

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

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Causes serious eye damage.

**Respiratory or skin sensitisation**

Shall not be classified as a respiratory or skin sensitisier.

**Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

**Carcinogenicity**

Shall not be classified as carcinogenic.

**Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

**Specific target organ toxicity - single exposure**

Shall not be classified as a specific target organ toxicant (single exposure).

**Specific target organ toxicity - repeated exposure**

Shall not be classified as a specific target organ toxicant (repeated exposure).

**Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

**Other information**

Corrosive to the respiratory tract.

**11.2 Information on other hazards**

There is no additional information.

**SECTION 12: Ecological information****12.1 Toxicity**

Shall not be classified as hazardous to the aquatic environment.

**Aquatic toxicity (acute) of components of the mixture**

| Name of substance     | CAS No    | Endpoint | Value     | Species               | Exposure time |
|-----------------------|-----------|----------|-----------|-----------------------|---------------|
| L-(+)-lactic acid     | 79-33-4   | EC50     | 130 mg/l  | aquatic invertebrates | 48 h          |
| L-(+)-lactic acid     | 79-33-4   | ErC50    | 3.5 g/l   | algae                 | 72 h          |
| phosphoric acid ... % | 7664-38-2 | EC50     | >100 mg/l | aquatic invertebrates | 48 h          |
| phosphoric acid ... % | 7664-38-2 | ErC50    | >100 mg/l | algae                 | 72 h          |

| Aquatic toxicity (chronic) of components |           |          |             |                |               |
|--|-----------|----------|-------------|----------------|---------------|
| Name of substance                        | CAS No    | Endpoint | Value       | Species        | Exposure time |
| L-(+)-lactic acid                        | 79-33-4   | EC50     | >88.2 mg/l  | microorganisms | 3 h           |
| phosphoric acid ... %                    | 7664-38-2 | EC50     | >1,000 mg/l | microorganisms | 3 h           |

**12.2 Persistence and degradability**

The surfactant contained in this preparation complies with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents. The relevant substances of the mixture are readily biodegradable.

**12.3 Bioaccumulative potential**

Data are not available.

**12.4 Mobility in soil**

Data are not available.

**12.5 Results of PBT and vPvB assessment**

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

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**12.6 Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

**12.7 Other adverse effects**

Data are not available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Sewage disposal-relevant information**

Do not empty into drains. Avoid release to the environment.

**Waste treatment of containers/packagings**

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

**Remarks**

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

**SECTION 14: Transport information****14.1 UN number or ID number**

|           |         |
|-----------|---------|
| ADR/RID   | UN 1760 |
| IMDG-Code | UN 1760 |
| ICAO-TI   | UN 1760 |

**14.2 UN proper shipping name**

|  |  |
|--|--|
| ADR/RID                                | CORROSIVE LIQUID, N.O.S.                 |
| IMDG-Code                              | CORROSIVE LIQUID, N.O.S.                 |
| ICAO-TI                                | Corrosive liquid, n.o.s.                 |
| Technical name (hazardous ingredients) | L-(+)-lactic acid, phosphoric acid ... % |

**14.3 Transport hazard class(es)**

|           |   |
|-----------|---|
| ADR/RID   | 8 |
| IMDG-Code | 8 |
| ICAO-TI   | 8 |

**14.4 Packing group**

|           |     |
|-----------|-----|
| ADR/RID   | III |
| IMDG-Code | III |
| ICAO-TI   | III |

**14.5 Environmental hazards**

non-environmentally hazardous acc. to the dangerous goods regulations

**14.6 Special precautions for user**

Provisions for dangerous goods (ADR) should be complied within the premises.

**14.7 Maritime transport in bulk according to IMO instruments**

The cargo is not intended to be carried in bulk.

**Information for each of the UN Model Regulations**

**Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) -**

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**Additional information**

Classification code C9

Danger label(s) 8



Special provisions (SP) 274

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 L

Transport category (TC) 3

Tunnel restriction code (TRC) E

Hazard identification No 80

Emergency Action Code 2X

**Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - Additional information**

Classification code C9

Danger label(s) 8



Special provisions (SP) 274

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 L

Transport category (TC) 3

Hazard identification No 80

**International Maritime Dangerous Goods Code (IMDG) - Additional information**

Marine pollutant -

Danger label(s) 8



Special provisions (SP) 223, 274

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 L

EmS F-A, S-B

Stowage category A

**International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information**

Danger label(s) 8



Special provisions (SP) A3

Excepted quantities (EQ) E1

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Limited quantities (LQ)

1 L

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Relevant provisions of the European Union (EU)****Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)**

none of the ingredients are listed

**Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)**

none of the ingredients are listed

none of the ingredients are listed

**Regulation on persistent organic pollutants (POP)**

none of the ingredients are listed

**National regulations (GB)****List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list**

none of the ingredients are listed

**15.2 Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Indication of changes (revised safety data sheet)**

| Section | Former entry (text/value)  | Actual entry (text/value)   | Safety-relevant |
|---------|--|---|-----------------|
| 1.1     | Alternative number(s):<br>PR010  | Alternative number(s):<br>Article number: 0311434   | yes             |
| 1.2     | Relevant identified uses:<br>professional use  | Relevant identified uses:<br>washing and cleaning products (including solvent based products)<br>professional use                                   | yes             |
| 1.4     | Emergency information service:<br>This number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM | Emergency information service:<br>+31 (0)40-2942500<br>This number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM | yes             |
| 2.2     |  | - Precautionary statements:<br>change in the listing (table)  | yes             |
| 2.3     | Results of PBT and vPvB assessment:<br>Does not contain a PBT-/vPvB-substance in a concentration of ≥ 0,1%.                    | Results of PBT and vPvB assessment:<br>Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.   | yes             |
| 2.3     | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.                | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.                                      | yes             |
| 3.2     |  | Description of the mixture:<br>change in the listing (table)  | yes             |
| 3.2     |  | Description of the mixture:<br>change in the listing (table)  | yes             |
| 3.2     |  | Remarks:<br>For full text of abbreviations: see SECTION 16  | yes             |
| 4.1     | General notes:<br>Take off immediately all contaminated clothing.<br>In all cases of doubt, or when symptoms persist,          | General notes:<br>Take off immediately all contaminated clothing.<br>In all cases of doubt, or when symptoms persist,                               | yes             |

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| Section | Former entry (text/value)   | Actual entry (text/value)   | Safety-relevant |
|---------|---|---|-----------------|
|         | seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  | seek medical advice.  |                 |
| 4.2     | Most important symptoms and effects, both acute and delayed:<br>Symptoms and effects are not known to date.   | Most important symptoms and effects, both acute and delayed:<br>Following eye contact. Following skin contact. Localised redness. Irritability. Causes tears. | yes             |
| 6.2     | Environmental precautions:<br>Keep away from drains, surface and ground water. Other information relating to spills and releases. Dilute with plenty of water.  | Environmental precautions:<br>Keep away from drains, surface and ground water.  | yes             |
| 6.3     | Other information relating to spills and releases:<br>Avoid contact with contaminated tools and objects. Place in appropriate containers for disposal.  |   | yes             |
| 12.5    | Results of PBT and vPvB assessment:<br>According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$ . | Results of PBT and vPvB assessment:<br>Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$ .  | yes             |
| 12.6    | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0,1\%$ .  | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$ .   | yes             |
| 15.1    | Restrictions according to GB REACH, Annex 17  |   | yes             |
| 15.1    |   | Dangerous substances with restrictions (GB REACH, Annex 17):<br>change in the listing (table)   | yes             |
| 16      |   | Abbreviations and acronyms:<br>change in the listing (table)  | yes             |
| 16      |   | List of relevant phrases (code and full text as stated in section 2 and 3):<br>change in the listing (table)  | yes             |

## Abbreviations and acronyms

| Abbr.     | Descriptions of used abbreviations  |
|-----------|---|
| ADR       | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)                         |
| ATE       | Acute Toxicity Estimate   |
| CAS       | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| Ceiling-C | Ceiling value   |
| DGR       | Dangerous Goods Regulations (see IATA/DGR)  |
| EC50      | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval      |
| EC No     | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)     |
| ED        | Endocrine disruptor   |
| EH40/2005 | EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> ) |
| EINECS    | European Inventory of Existing Commercial Chemical Substances   |
| ELINCS    | European List of Notified Chemical Substances   |
| EmS       | Emergency Schedule  |

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| Abbr.       | Descriptions of used abbreviations  |
|-------------|---|
| ErC50       | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control  |
| Eye Dam.    | Seriously damaging to the eye   |
| Eye Irrit.  | Irritant to the eye   |
| GB REACH    | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)  |
| GHS         | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations   |
| IATA        | International Air Transport Association   |
| IATA/DGR    | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO        | International Civil Aviation Organization   |
| ICAO-TI     | Technical instructions for the safe transport of dangerous goods by air   |
| IMDG        | International Maritime Dangerous Goods Code   |
| IMDG-Code   | International Maritime Dangerous Goods Code   |
| index No    | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008  |
| Met. Corr.  | Substance or mixture corrosive to metals  |
| NLP         | No-Longer Polymer   |
| PBT         | Persistent, Bioaccumulative and Toxic   |
| ppm         | Parts per million   |
| REACH       | Registration, Evaluation, Authorisation and Restriction of Chemicals  |
| RID         | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| Skin Corr.  | Corrosive to skin   |
| Skin Irrit. | Irritant to skin  |
| STEL        | Short-term exposure limit   |
| STOT SE     | Specific target organ toxicity - single exposure  |
| TWA         | Time-weighted average   |
| vPvB        | Very Persistent and very Bioaccumulative  |
| WEL         | Workplace exposure limit  |

### Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                                     |
|------|--|
| H290 | May be corrosive to metals.              |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage.               |



# Safety Data Sheet

acc. to according to Regulation (EC) No. 1907/2006 (REACH)

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| Code | Text                              |
|------|-----------------------------------|
| H319 | Causes serious eye irritation.    |
| H335 | May cause respiratory irritation. |

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.