

EU safety data sheet

Trade name: KRONES hydrocare 1905

Current version : 1.0.1, issued: 08.06.2021

Replaced version: 1.0.0, issued: 30.06.2020

Region: GB

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name

KRONES hydrocare 1905

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

Relevant identified uses of the substance or mixture

membrane cleaner

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

KIC KRONES Internationale Cooperationsgesellschaft mbH
Böhmerwaldstraße 5
93073 Neutraubling

Telephone no. +49 9401 70-3020

Fax no. +49 9401 70-3696

e-mail kic@kic-krones.com

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

In case of transport incidents and other emergencies:

+44 (0) 1235 239 670 (NCEC, National Chemical Emergency Centre)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 4; H302

Eye Dam. 1; H318

Met. Corr. 1; H290

Skin Corr. 1; H314

Classification information

Product is classified as "Corrosive" based on the extreme pH-value, see:

- Regulation 1272/2008 (CLP), Annex. I, number 3.2.2.2 / 3.2.3.1.2

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

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

Hazard pictograms



GHS05



GHS07

Signal word

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Danger

Hazardous component(s) to be indicated on label:

potassium hydroxide
tetrasodium-ethylenediaminetetraacetate
sodium hydroxide

Hazard statement(s)

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

| No | Substance name | Additional information | |
|----|--|---|------------------------|
| | CAS / EC / Index / REACH no | Classification (EC) 1272/2008 (CLP) | Concentration % |
| 1 | potassium hydroxide | | |
| | 1310-58-3 215-181-3 019-002-00-8 01-2119487136-33 | Acute Tox. 4; H302 Skin Corr. 1A; H314 Met. Corr. 1; H290 Eye Dam. 1; H318 | >= 10.00 - < 25.00 wt% |
| 2 | tetrasodium-ethylenediaminetetraacetate | | |
| | 64-02-8 200-573-9 607-428-00-2 01-2119457892-27 | Eye Dam. 1; H318 Acute Tox. 4; H332 Acute Tox. 4; H302 STOT RE 2; H373 | >= 5.00 - < 10.00 wt% |
| 3 | sodium hydroxide | | |
| | 1310-73-2 215-185-5 011-002-00-6 01-2119457892-27 | Skin Corr. 1A; H314 Met. Corr. 1; H290 Eye Dam. 1; H318 | >= 5.00 - < 10.00 wt% |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

| No | Note | Specific concentration limits | M-factor (acute) | M-factor (chronic) |
|----|------|---|------------------|--------------------|
| 1 | - | Skin Irrit. 2; H315: C >= 0.5% Eye Irrit. 2; H319: C >= 0.5% Skin Corr. 1B; H314: C >= 2% Skin Corr. 1A; H314: C >= 5% | - | - |
| 3 | - | Skin Irrit. 2; H315: C >= 0.5% Eye Irrit. 2; H319: C >= 0.5% Skin Corr. 1B; H314: C >= 2% Skin Corr. 1A; H314: C >= 5% | - | - |

Acute toxicity estimate (ATE) values

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| No | oral | dermal | inhalative |
|----|-----------------------|--------|------------|
| 1 | 333 mg/kg bodyweight | | |
| 2 | 1780 mg/kg bodyweight | | |

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. Seek medical advice immediately.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. Do not use mouth-to-mouth or mouth-to-nose resuscitation. Call a doctor immediately.

After skin contact

Wash immediately with plenty of water for several minutes. Call a doctor immediately.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

burns

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Toxic gases/vapours; Pyrolysis products; Carbon monoxide and carbon dioxide

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Do not inhale explosion and/or combustion byproducts. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Use personal protective clothing. Ensure adequate ventilation. Remove persons to safety. Avoid contact with skin, eyes and clothing.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous

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earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing. Clean skin thoroughly after work; apply skin cream. Have emergency shower available. Provide eye wash fountain in work area.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Keep from freezing. Protect from sun.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original. Provide alkali-resistant floor.

Incompatible products

Substances to be avoided, see section 10. Do not store together with: Acids; Metals

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

| No | Substance name | CAS no. | EC no. |
|---|---|-----------|-------------------|
| 1 | potassium hydroxide | 1310-58-3 | 215-181-3 |
| List of approved workplace exposure limits (WELs) / EH40 | | | |
| Potassium hydroxide (as Cyanide) | | | |
| | WEL short-term (15 min reference period) | 5 | mg/m ³ |
| | WEL long-term (8-hr TWA reference period) | 1 | mg/m ³ |
| 2 | sodium hydroxide | 1310-73-2 | 215-185-5 |
| List of approved workplace exposure limits (WELs) / EH40 | | | |
| Sodium hydroxide | | | |
| | WEL short-term (15 min reference period) | 2 | mg/m ³ |

DNEL, DMEL and PNEC values

DNEL values (worker)

| No | Substance name | CAS / EC no | | |
|----|---|------------------------|--------|-----------------------|
| | Route of exposure | Exposure time | Effect | Value |
| 1 | potassium hydroxide | 1310-58-3 215-181-3 | | |
| | inhalative | Long term (chronic) | local | 1 mg/m ³ |
| 2 | tetrasodium-ethylenediaminetetraacetate | 64-02-8 200-573-9 | | |
| | inhalative | Long term (chronic) | local | 1.5 mg/m ³ |
| | inhalative | Short term (acute) | local | 3 mg/m ³ |

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| | | | | |
|---|-------------------------|---------------------|-------|--------------------------------------|
| 3 | sodium hydroxide | | | 1310-73-2 215-185-5 |
| | inhalative | Long term (chronic) | local | 1 mg/m ³ |

DNEL value (consumer)

| No | Substance name | | | CAS / EC no |
|----|--|---------------------|----------|--------------------------------------|
| | Route of exposure | Exposure time | Effect | Value |
| 1 | potassium hydroxide | | | 1310-58-3 215-181-3 |
| | inhalative | Long term (chronic) | local | 1 mg/m ³ |
| 2 | tetrasodium-ethylenediaminetetraacetate | | | 64-02-8 200-573-9 |
| | oral | Long term (chronic) | systemic | 25 mg/kg/day |
| | inhalative | Long term (chronic) | local | 0.6 mg/m ³ |
| | inhalative | Short term (acut) | local | 1.2 mg/m ³ |
| 3 | sodium hydroxide | | | 1310-73-2 215-185-5 |
| | inhalative | Long term (chronic) | local | 1 mg/m ³ |

PNEC values

| No | Substance name | | CAS / EC no |
|----|--|-------------------|------------------------------------|
| | ecological compartment | Type | Value |
| 1 | tetrasodium-ethylenediaminetetraacetate | | 64-02-8 200-573-9 |
| | water | fresh water | 2.2 mg/L |
| | water | marine water | 0.22 mg/L |
| | water | Aqua intermittent | 1.2 mg/L |
| | soil | - | 0.72 mg/kg dry weight |
| | sewage treatment plant | - | 43 mg/L |

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respirator B-P3

Eye / face protection

Safety glasses with side protection shield (EN 166); Tightly fitting safety glasses (EN 166).

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

| | | | |
|----------------------|--------------|-----|-----|
| Appropriate Material | viton | | |
| Material thickness | >= | 0.4 | mm |
| Breakthrough time | > | 480 | min |
| Appropriate Material | butyl rubber | | |
| Material thickness | >= | 0.5 | mm |
| Breakthrough time | > | 480 | min |
| Appropriate Material | PVC | | |
| Material thickness | >= | 0.5 | mm |
| Breakthrough time | > | 480 | min |

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Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--------------------------------------|------------------------------|
| State of aggregation | |
| liquid | |
| Form/Colour | |
| liquid | |
| yellowish | |
| Odour | |
| characteristic | |
| pH value | |
| Value | 13 |
| Boiling point / boiling range | |
| No data available | |
| Melting point/freezing point | |
| Value | < 0 °C |
| Decomposition temperature | |
| No data available | |
| Flash point | |
| No data available | |
| Ignition temperature | |
| No data available | |
| Auto-ignition temperature | |
| Comments | Product is not selfigniting. |
| Oxidising properties | |
| not oxidizing | |
| Flammability | |
| No data available | |
| Lower explosion limit | |
| No data available | |
| Upper explosion limit | |
| No data available | |
| Vapour pressure | |
| No data available | |
| Relative vapour density | |
| No data available | |
| Relative density | |
| Value | 1.34 |
| Density | |
| No data available | |
| Solubility in water | |
| Comments | Completely miscible |
| Solubility | |

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No data available

Partition coefficient n-octanol/water (log value)

No data available

Viscosity

No data available

Particle characteristics

No data available

9.2 Other information

Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Reactions with metals, with evolution of hydrogen. Exothermic reaction with: acids

10.4 Conditions to avoid

None, if handled according to intended use.

10.5 Incompatible materials

Oxidizing agents; Acids; Metals; Halogenated compounds

10.6 Hazardous decomposition products

None, if handled according to intended use.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity (result of the ATE calculation for the mixture)

| No | Product Name |
|---------------|---|
| 1 | KRONES hydrocare 1905 |
| ATE (Mixture) | 1522.84 |
| Method | Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6. |

Acute oral toxicity

| No | Substance name | CAS no. | EC no. |
|---------|---|-----------|------------------|
| 1 | potassium hydroxide | 1310-58-3 | 215-181-3 |
| LD50 | | 333 | mg/kg bodyweight |
| Species | rat | | |
| Method | OECD 425 | | |
| Source | ECHA | | |
| 2 | tetrasodium-ethylenediaminetetraacetate | 64-02-8 | 200-573-9 |
| LD50 | | 1780 | mg/kg bodyweight |
| Species | rat (female) | | |
| Source | ECHA | | |

Acute dermal toxicity

No data available

Acute inhalational toxicity (result of the ATE calculation for the mixture)

| No | Product Name |
|----------|---|
| 1 | KRONES hydrocare 1905 |
| Comments | The result of the applied calculation method according to the |

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| | | | |
|--|-----------------------|---|-----------|
| | | European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists). | |
| Acute inhalational toxicity | | | |
| No data available | | | |
| Skin corrosion/irritation | | | |
| No | Product Name | | |
| 1 | KRONES hydrocare 1905 | | |
| Comments | | pH >= 11,5 | |
| Evaluation | | corrosive | |
| Serious eye damage/irritation | | | |
| No | Product Name | | |
| 1 | KRONES hydrocare 1905 | | |
| Comments | | pH >= 11,5 | |
| Evaluation | | corrosive | |
| Respiratory or skin sensitisation | | | |
| No | Substance name | CAS no. | EC no. |
| 1 | potassium hydroxide | 1310-58-3 | 215-181-3 |
| Route of exposure | | Skin | |
| Species | | guinea pig | |
| Source | | ECHA | |
| Evaluation | | non-sensitizing | |
| 2 | sodium hydroxide | 1310-73-2 | 215-185-5 |
| Route of exposure | | Skin | |
| Species | | Human | |
| Source | | ECHA | |
| Evaluation | | non-sensitizing | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| Germ cell mutagenicity | | | |
| No | Substance name | CAS no. | EC no. |
| 1 | potassium hydroxide | 1310-58-3 | 215-181-3 |
| Type of examination | | Ames-Test | |
| Species | | Bacteria - Salmonella typhimurium | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| Reproduction toxicity | | | |
| No data available | | | |
| Carcinogenicity | | | |
| No data available | | | |
| STOT - single exposure | | | |
| No data available | | | |
| STOT - repeated exposure | | | |
| No data available | | | |
| Aspiration hazard | | | |
| No data available | | | |

11.2 Information on other hazards

Endocrine disrupting properties

No data available.

Other information

No data available.

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SECTION 12: Ecological information

12.1 Toxicity

| Toxicity to fish (acute) | | | |
|---------------------------|---|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | potassium hydroxide | 1310-58-3 | 215-181-3 |
| LC50 | | 80 | mg/l |
| Duration of exposure | | 96 | h |
| Species | Gambusia affinis | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |
| 2 | tetrasodium-ethylenediaminetetraacetate | 64-02-8 | 200-573-9 |
| LC50 | | 121 | mg/l |
| Duration of exposure | | 96 | h |
| Species | Lepomis macrochirus | | |
| Source | ECHA | | |

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)

| No | Substance name | CAS no. | EC no. |
|----------------------|-------------------|-----------|-----------|
| 1 | sodium hydroxide | 1310-73-2 | 215-185-5 |
| EC50 | | 40.4 | mg/l |
| Duration of exposure | | 48 | h |
| Species | Ceriodaphnia spec | | |
| Source | ECHA | | |

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No data available

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

Other information

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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Product

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

| | |
|---------------------------|--|
| Class | 8 |
| Classification code | C5 |
| Packing group | II |
| Hazard identification no. | 80 |
| UN number | UN3266 |
| Proper shipping name | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. |
| Technical name | potassium hydroxide sodium hydroxide |
| Tunnel restriction code | E |
| Label | 8 |

14.2 Transport IMDG

| | |
|----------------------|--|
| Class | 8 |
| Packing group | II |
| UN number | UN3266 |
| Proper shipping name | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. |
| Technical name | potassium hydroxide sodium hydroxide |
| EmS | F-A, S-B |
| Label | 8 |

14.3 Transport ICAO-TI / IATA

| | |
|----------------------|--|
| Class | 8 |
| Packing group | II |
| UN number | UN3266 |
| Proper shipping name | Corrosive liquid, basic, inorganic, n.o.s. |
| Technical name | potassium hydroxide sodium hydroxide |
| Label | 8 |

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain

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any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No 3

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H318

Causes serious eye damage.

H332

Harmful if inhaled.

H373

May cause damage to organs through prolonged or repeated exposure

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

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