

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CHP Härter

|         |         |                |                                 |
|---------|---------|----------------|---------------------------------|
| Version |         | Revision Date: | Date of last issue: 01.07.2022  |
| 2.1     | DE / EN | 05.12.2023     | Date of first issue: 01.07.2022 |

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

#### 1.1 Product identifier

Trade name : CHP Härter  
Product code : 147.473

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

Use of the Sub-  
stance/Mixture : Curing chemical  
Recommended restrictions : Industrial use, professional use  
on use

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

Company : JASA AG  
Müslistrasse 43  
8957 Spreitenbach  
Schweiz  
info@jasa-ag.ch, www.jasa-ag.ch  
Telephone : +41 (0)44 431 60 70  
Telefax : +41 (0)44 432 63 17  
**Responsible Department** : Productmanagement, Tel: +41 (0)44 431 60 70, sds@jasa-ag.ch

#### 1.4 Emergency telephone

Telephone : Tox Info Suisse (STIZ), Tel: 145

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CHP Härter

Version  
2.1

DE / EN

Revision Date:  
05.12.2023

Date of last issue: 01.07.2022  
Date of first issue: 01.07.2022

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

|  |  |
|--|--|
| Flammable liquids, Category 2  | H225: Highly flammable liquid and vapor.       |
| Organic peroxides, Type D  | H242: Heating may cause a fire.                |
| Skin corrosion, Sub-category 1B  | H314: Causes severe skin burns and eye damage. |
| Serious eye damage, Category 1   | H318: Causes serious eye damage.               |
| Reproductive toxicity, Category 2  | H361d: Suspected of damaging the unborn child. |
| Specific target organ toxicity - single exposure, Category 3, Central nervous system | H336: May cause drowsiness or dizziness.       |
| Specific target organ toxicity - single exposure, Category 3, Respiratory system     | H335: May cause respiratory irritation.        |

#### 2.2 Label elements

##### Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.  
H242 Heating may cause a fire.  
H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H361d Suspected of damaging the unborn child.

Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary Statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

##### Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P220 Keep/Store away from clothing/ strong acids, bases, heavy metal salts and other reducing substances /combustible

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CHP Härter

Version  
2.1

DE / EN

Revision Date:  
05.12.2023

Date of last issue: 01.07.2022  
Date of first issue: 01.07.2022

materials.

P234 Keep only in original packaging.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

### Response:

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.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

### Hazardous ingredients which must be listed on the label:

ethyl acetate

4-hydroxy-4-methylpentan-2-one

cyclohexanone, peroxide

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

| Chemical name | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification | Concentration<br>(% w/w) |
|---------------|---|----------------|--------------------------|
|               |   |                |                          |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CHP Härter

Version  
2.1

DE / EN

Revision Date:  
05.12.2023

Date of last issue: 01.07.2022  
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|                                |   |   |              |
|--------------------------------|---|---|--------------|
| ethyl acetate                  | 141-78-6<br>205-500-4<br>607-022-00-5<br>01-2119475103-46   | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336<br>(Central nervous system)<br>EUH066   | >= 50 - < 70 |
| 4-hydroxy-4-methylpentan-2-one | 123-42-2<br>204-626-7<br>603-016-00-1<br>01-2119473975-21   | Flam. Liq. 3; H226<br>Eye Irrit. 2; H319<br>Repr. 2; H361d<br>STOT SE 3; H335<br>(Respiratory system)<br><br>specific concentration limit<br>Eye Irrit. 2; H319<br>>= 10 %  | >= 20 - < 30 |
| cyclohexanone, peroxide        | 12262-58-7<br>235-527-7<br>617-010-00-1<br>01-2120762253-58 | Org. Perox. A; H240<br>Acute Tox. 4; H302<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>STOT SE 3; H335<br>(Respiratory system)<br><br>specific concentration limit<br>STOT SE 3; H335<br>>= 5 %<br>STOT SE 3; H335<br>>= 5 %<br><br>Acute toxicity estimate<br><br>Acute oral toxicity:<br>1.242 mg/kg | >= 10 - < 20 |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
Move out of dangerous area.  
Take off contaminated clothing and shoes immediately.  
Show this material safety data sheet to the doctor in attendance.  
First aider needs to protect himself.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CHP Härter

|         |                |                                 |
|---------|----------------|---------------------------------|
| Version | Revision Date: | Date of last issue: 01.07.2022  |
| 2.1     | 05.12.2023     | Date of first issue: 01.07.2022 |

---

- |                         |   |   |
|-------------------------|---|---|
| If inhaled              | : | Move to fresh air.<br>Get medical attention.  |
| In case of skin contact | : | Take off contaminated clothing and shoes immediately.<br>Wash off immediately with plenty of water.<br>Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. |
| In case of eye contact  | : | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.<br>Keep eye wide open while rinsing.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Call a physician immediately.               |
| If swallowed            | : | Clean mouth with water and drink afterwards plenty of water.<br>Do NOT induce vomiting.<br>Call a physician immediately.<br>Take victim immediately to hospital.  |

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

- |       |   |  |
|-------|---|--|
| Risks | : | Causes serious eye damage.<br>May cause respiratory irritation.<br>May cause drowsiness or dizziness.<br>Suspected of damaging the unborn child.<br>Causes severe burns. |
|-------|---|--|

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

- |           |   |                        |
|-----------|---|------------------------|
| Treatment | : | Treat symptomatically. |
|-----------|---|------------------------|
- 

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- |                                |   |  |
|--------------------------------|---|--|
| Suitable extinguishing media   | : | Carbon dioxide (CO <sub>2</sub> )<br>Dry powder<br>Water spray jet<br>Alcohol-resistant foam |
| Unsuitable extinguishing media | : | High volume water jet  |

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

- |                                       |   |  |
|---------------------------------------|---|--|
| Specific hazards during fire fighting | : | Hazardous decomposition products formed under fire conditions.     |
| Hazardous combustion products         | : | Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CHP Härter

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 01.07.2022  |
| 2.1 DE / EN | 05.12.2023     | Date of first issue: 01.07.2022 |

---

### 5.3 Advice for firefighters

- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus and protective suit. Exposure to decomposition products may be a hazard to health.
- Further information : Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- 

## SECTION 6: Accidental release measures

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

- Personal precautions : Wear personal protective equipment. Evacuate personnel to safe areas. Remove all sources of ignition. Do not smoke. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Wear respiratory protection.

### 6.2 Environmental precautions

- Environmental precautions : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

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

- Methods for cleaning up : Soak up with inert absorbent material and dispose of as hazardous waste. Sweep up and shovel into suitable containers for disposal. Contact with incompatible substances can cause decomposition at or below SADT.

### 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Technical measures : Ensure that eyewash stations and safety showers are close to the workstation location.
- Advice on safe handling : Wear personal protective equipment. Keep away from heat and sources of ignition. Handle and open container with care. Keep container tightly closed and dry. Never return unused material to storage receptacle.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CHP Härter

Version  
2.1

DE / EN

Revision Date:  
05.12.2023

Date of last issue: 01.07.2022  
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Risk of decomposition.  
Prevent contamination with readily oxidizable materials and polymerization accelerators.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
Do not breathe vapors/dust.  
Avoid formation of aerosol.  
Avoid contact with eyes.

Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition. Keep away from direct sunlight. Avoid shock and friction. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Vapors may form explosive mixtures with air.

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

Requirements for storage areas and containers : Store in original container. Store in cool place. Store between 41 and 77 °F in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store away from other materials.

Advice on common storage : Keep away from strong acids, bases, heavy metal salts and other reducing substances.  
Keep away from food, drink and animal feedingstuffs.  
Organic peroxides

Storage class (TRGS 510) : 5.2

### 7.3 Specific end use(s)

Specific use(s) : No data available  
The rules which cover amongst other things the requirement for ventilation, protective clothing, personal protective equipment etc. can be obtained from the National Occupational Health and Safety Board.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components    | CAS-No.  | Value type (Form of exposure)   | Control parameters                 | Basis          |
|---------------|----------|---------------------------------|------------------------------------|----------------|
| ethyl acetate | 141-78-6 | STEL                            | 400 ppm<br>1.468 mg/m <sup>3</sup> | 2017/164/EU    |
|               |          | Further information: Indicative |                                    |                |
|               |          | TWA                             | 200 ppm<br>734 mg/m <sup>3</sup>   | 2017/164/EU    |
|               |          | Further information: Indicative |                                    |                |
|               |          | AGW                             | 200 ppm<br>730 mg/m <sup>3</sup>   | DE TRGS<br>900 |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CHP Härter

Version  
2.1

DE / EN

Revision Date:  
05.12.2023

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Date of first issue: 01.07.2022

|                                |  |     |                                |                |
|--------------------------------|--|-----|--------------------------------|----------------|
|                                | Peak-limit category: 2;(I)   |     |                                |                |
|                                | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |     |                                |                |
| 4-hydroxy-4-methylpentan-2-one | 123-42-2   | AGW | 20 ppm<br>96 mg/m <sup>3</sup> | DE TRGS<br>900 |
|                                | Peak-limit category: 2;(I)   |     |                                |                |
|                                | Further information: Skin absorption   |     |                                |                |

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name                 | End Use   | Routes of exposure | Potential health effects                            | Value                  |
|--------------------------------|-----------|--------------------|---|------------------------|
| ethyl acetate                  | Workers   | Inhalation         | Long-term systemic effects, Long-term local effects | 734 mg/m <sup>3</sup>  |
|                                | Workers   | Inhalation         | Acute systemic effects, Acute local effects         | 1468 mg/m <sup>3</sup> |
|                                | Workers   | Skin contact       | Long-term systemic effects                          | 63 mg/kg bw/day        |
|                                | Consumers | Inhalation         | Long-term systemic effects, Long-term local effects | 367 mg/m <sup>3</sup>  |
|                                | Consumers | Inhalation         | Acute systemic effects, Acute local effects         | 734 mg/m <sup>3</sup>  |
|                                | Consumers | Skin contact       | Long-term systemic effects                          | 37 mg/kg bw/day        |
|                                | Consumers | Ingestion          | Long-term systemic effects                          | 4,5 mg/kg bw/day       |
| 4-hydroxy-4-methylpentan-2-one | Workers   | Inhalation         | Long-term systemic effects                          | 59,2 mg/m <sup>3</sup> |
|                                | Workers   | Inhalation         | Acute local effects                                 | 240 mg/m <sup>3</sup>  |
|                                | Workers   | Skin contact       | Long-term systemic effects                          | 840 mg/kg              |
|                                | Consumers | Inhalation         | Long-term systemic effects                          | 10,4 mg/m <sup>3</sup> |
|                                | Consumers | Skin contact       | Long-term systemic effects                          | 60 mg/kg               |
|                                | Consumers | Oral               | Long-term systemic effects                          | 3 mg/kg                |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment    | Value                         |
|----------------|------------------------------|-------------------------------|
| ethyl acetate  | Fresh water                  | 0,24 mg/l                     |
|                | Sea water                    | 0,024 mg/l                    |
|                | Fresh water sediment         | 1,15 mg/kg dry weight (d.w.)  |
|                | Sea sediment                 | 0,115 mg/kg dry weight (d.w.) |
|                | Sewage treatment plant (STP) | 650 mg/l                      |
|                | Soil                         | 0,148 mg/kg dry               |



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CHP Härter

Version  
2.1

DE / EN

Revision Date:  
05.12.2023

Date of last issue: 01.07.2022  
Date of first issue: 01.07.2022

|                                |                              | weight (d.w.)  |
|--------------------------------|------------------------------|----------------|
|                                | Oral (Secondary Poisoning)   | 200 mg/kg food |
| 4-hydroxy-4-methylpentan-2-one | Fresh water                  | 2 mg/l         |
|                                | Sea water                    | 0,2 mg/l       |
|                                | Sewage treatment plant (STP) | 10 mg/l        |
|                                | Fresh water sediment         | 9,06 mg/kg     |
|                                | Sea sediment                 | 0,91 mg/kg     |
|                                | Soil                         | 0,63 mg/kg     |

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

#### Hand protection

Material : Neoprene  
Directive : DIN EN 374

Material : Nitrile rubber  
Directive : DIN EN 374

Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

Skin and body protection : Please wear suitable protective clothing, e.g. made of cotton or heat-resistant synthetic fibres.  
Long sleeved clothing

Respiratory protection : Apply technical measures to comply with the occupational exposure limits.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
In case of inadequate ventilation wear respiratory protection.

Filter type : Combined particulates and organic vapor type (A-P)

Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.  
Avoid contact with the skin and the eyes.  
Use only with adequate ventilation.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CHP Härter

|                |         |                              |   |
|----------------|---------|------------------------------|---|
| Version<br>2.1 | DE / EN | Revision Date:<br>05.12.2023 | Date of last issue: 01.07.2022<br>Date of first issue: 01.07.2022 |
|----------------|---------|------------------------------|---|

---

|  |   |                                 |
|--|---|---------------------------------|
| Color  | : | colorless                       |
| Odor   | : | characteristic                  |
| Melting point/range                                | : | not determined                  |
| Boiling point/boiling range                        | : | 77 °C                           |
| Upper explosion limit / Upper flammability limit   | : | 11,5 %(V)                       |
| Lower explosion limit / Lower flammability limit   | : | 1,4 %(V)                        |
| Flash point  | : | -4 °C                           |
| Self-Accelerating decomposition temperature (SADT) | : | 50 °C                           |
| pH   | : | 4 - 6<br>Concentration: 10 %    |
| Viscosity  |   |                                 |
| Viscosity, dynamic                                 | : | not determined                  |
| Viscosity, kinematic                               | : | No data available               |
| Solubility(ies)                                    |   |                                 |
| Water solubility                                   | : | partly miscible                 |
| Partition coefficient: n-octanol/water             | : | No data available               |
| Vapor pressure                                     | : | not determined                  |
| Density  | : | ca. 1 g/cm <sup>3</sup> (20 °C) |

### 9.2 Other information

|                      |   |   |
|----------------------|---|---|
| Oxidizing properties | : | Organic peroxide<br><br>Sustains combustion   |
| Organic peroxides    | : | Peroxide content: 10 %<br>The substance or mixture is an organic peroxide classified as type D. |

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if used as directed.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CHP Härter

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 01.07.2022  |
| 2.1 DE / EN | 05.12.2023     | Date of first issue: 01.07.2022 |

---

### 10.2 Chemical stability

No decomposition if stored and applied as directed.  
Decomposes on heating.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Risk of decomposition.  
Reacts violently in contact with acids, amines, driers, polymerization accelerators and easily oxidized materials.

### 10.4 Conditions to avoid

Conditions to avoid : Do not expose to temperatures above: > 25 °C  
Extremes of temperature and direct sunlight.  
Keep away from heat and sources of ignition.  
Contact with incompatible substances can cause decomposition at or below SADT.

### 10.5 Incompatible materials

Materials to avoid : Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents  
Rust  
Iron  
Copper

### 10.6 Hazardous decomposition products

Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition  
Carbon oxides

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## SECTION 11: Toxicological information

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

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

#### Components:

##### ethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): 4.934 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat): 22,5 mg/l, > 6000 ppm  
Exposure time: 6 h  
Test atmosphere: vapor  
Assessment: The substance or mixture has no acute inhalation toxicity

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CHP Härter

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 01.07.2022  |
| 2.1 DE / EN | 05.12.2023     | Date of first issue: 01.07.2022 |

---

Acute dermal toxicity : LD50 Dermal (Rabbit): > 20.000 mg/kg

### **4-hydroxy-4-methylpentan-2-one:**

Acute oral toxicity : LD50 Oral (Rat): 3.002 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat): >= 7,6 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD0 (Rat): > 1.875 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### **cyclohexanone, peroxide:**

Acute oral toxicity : LD50 Oral (Rat): 1.242 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Assessment: The substance or mixture has no acute inhalation toxicity

### **Skin corrosion/irritation**

Causes severe burns.

### **Components:**

#### **ethyl acetate:**

Result : Repeated exposure may cause skin dryness or cracking.

#### **cyclohexanone, peroxide:**

Species : Rabbit  
Result : Corrosive  
Remarks : Category 1B

### **Serious eye damage/eye irritation**

Causes serious eye damage.

### **Components:**

#### **cyclohexanone, peroxide:**

Species : Rabbit  
Result : Irreversible effects on the eye

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CHP Härter

Version  
2.1

DE / EN

Revision Date:  
05.12.2023

Date of last issue: 01.07.2022  
Date of first issue: 01.07.2022

---

### **Respiratory or skin sensitization**

#### **Skin sensitization**

Not classified based on available information.

#### **Respiratory sensitization**

Not classified based on available information.

#### **Germ cell mutagenicity**

Not classified based on available information.

#### **Carcinogenicity**

Not classified based on available information.

#### **Reproductive toxicity**

Suspected of damaging the unborn child.

#### **Components:**

##### **4-hydroxy-4-methylpentan-2-one:**

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

##### **STOT-single exposure**

May cause respiratory irritation.  
May cause drowsiness or dizziness.

#### **Components:**

##### **4-hydroxy-4-methylpentan-2-one:**

Assessment : May cause respiratory irritation.

##### **cyclohexanone, peroxide:**

Assessment : May cause respiratory irritation.

##### **STOT-repeated exposure**

Not classified based on available information.

#### **Aspiration toxicity**

Not classified based on available information.

## **11.2 Information on other hazards**

### **Endocrine disrupting properties**

#### **Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

# SAFETY DATA SHEET

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## CHP Härter

Version  
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Revision Date:  
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---

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **ethyl acetate:**

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 230 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 610 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- Toxicity to microorganisms : NOEC (Pseudomonas putida): 650 mg/l  
Exposure time: 16 h
- Toxicity to fish (Chronic toxicity) : NOEC: > 9,65 mg/l  
Exposure time: 32 d  
Species: Pimephales promelas (fathead minnow)  
Method: OECD Test Guideline 210
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 2,4 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

##### **4-hydroxy-4-methylpentan-2-one:**

- Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): > 100 mg/l  
End point: mortality  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 100 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CHP Härter

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 01.07.2022  |
| 2.1 DE / EN | 05.12.2023     | Date of first issue: 01.07.2022 |

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### **cyclohexanone, peroxide:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 48 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to microorganisms : EC50 (Bacteria): 11,1 mg/l  
Exposure time: 0,5 h

### **Ecotoxicology Assessment**

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

## 12.2 Persistence and degradability

### Components:

#### **ethyl acetate:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 79 %  
Related to: Biochemical oxygen demand  
Exposure time: 20 d  
Method: OECD Test Guideline 301D

#### **4-hydroxy-4-methylpentan-2-one:**

Biodegradability : Result: rapidly biodegradable  
Biodegradation: 98,51 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301A

## 12.3 Bioaccumulative potential

### Components:

#### **ethyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 0,68 (25 °C)

#### **4-hydroxy-4-methylpentan-2-one:**

Partition coefficient: n-octanol/water : log Pow: -0,09 (20 °C)

#### **cyclohexanone, peroxide:**

Partition coefficient: n-octanol/water : Pow: 1,2 (29 °C)

## 12.4 Mobility in soil

No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CHP Härter

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 01.07.2022  |
| 2.1 DE / EN | 05.12.2023     | Date of first issue: 01.07.2022 |

---

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

**Product:**

Additional ecological information : No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not mix waste streams during collection.  
Do not dispose of with domestic refuse.  
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
Dispose of in accordance with local regulations.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.  
Dispose of in accordance with local regulations.

Waste Code : The following Waste Codes are only suggestions:  
16 05 06, laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals  
16 09 03, peroxides, for example hydrogen peroxide

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## SECTION 14: Transport information

### 14.1 UN number or ID number

ADN : UN 3105  
ADR : UN 3105



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CHP Härter

|         |         |                |                                 |
|---------|---------|----------------|---------------------------------|
| Version |         | Revision Date: | Date of last issue: 01.07.2022  |
| 2.1     | DE / EN | 05.12.2023     | Date of first issue: 01.07.2022 |

---

**RID** : UN 3105  
**IMDG** : UN 3105  
**IATA** : UN 3105

### 14.2 UN proper shipping name

**ADN** : ORGANIC PEROXIDE TYPE D, LIQUID  
(cyclohexanone, peroxide)  
**ADR** : ORGANIC PEROXIDE TYPE D, LIQUID  
(cyclohexanone, peroxide)  
**RID** : ORGANIC PEROXIDE TYPE D, LIQUID  
(cyclohexanone, peroxide)  
**IMDG** : ORGANIC PEROXIDE TYPE D, LIQUID  
(cyclohexanone, peroxide)  
**IATA** : Organic peroxide type D, liquid  
(cyclohexanone, peroxide)

### 14.3 Transport hazard class(es)

|             | Class | Subsidiary risks |
|-------------|-------|------------------|
| <b>ADN</b>  | : 5.2 |                  |
| <b>ADR</b>  | : 5.2 |                  |
| <b>RID</b>  | : 5.2 |                  |
| <b>IMDG</b> | : 5.2 |                  |
| <b>IATA</b> | : 5.2 | HEAT             |

### 14.4 Packing group

**ADN**  
Packing group : Not assigned by regulation  
Classification Code : P1  
Labels : 5.2

**ADR**  
Packing group : Not assigned by regulation  
Classification Code : P1  
Labels : 5.2  
Tunnel restriction code : (D)

**RID**  
Packing group : Not assigned by regulation  
Classification Code : P1  
Hazard Identification Number : 539  
Labels : 5.2

**IMDG**  
Packing group : Not assigned by regulation  
Labels : 5.2  
EmS Code : F-J, S-R

**IATA (Cargo)**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CHP Härter

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 01.07.2022  |
| 2.1 DE / EN | 05.12.2023     | Date of first issue: 01.07.2022 |

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Packing instruction (cargo aircraft) : 570  
Packing group : Not assigned by regulation  
Labels : Organic Peroxides, Keep Away From Heat

### IATA (Passenger)

Packing instruction (passenger aircraft) : 570  
Packing group : Not assigned by regulation  
Labels : Organic Peroxides, Keep Away From Heat

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : no

#### ADR

Environmentally hazardous : no

#### RID

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu- : Not applicable

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CHP Härter

|             |                |                                 |
|-------------|----------------|---------------------------------|
| Version     | Revision Date: | Date of last issue: 01.07.2022  |
| 2.1 DE / EN | 05.12.2023     | Date of first issue: 01.07.2022 |

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tants (recast)

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

Water hazard class (Germany) : WGK 2 obviously hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

### Other regulations:

BG-Merkblatt M001 beachten (German regulatory requirements)  
BGV B4 organische Peroxide. (German regulatory requirements)

Gefahrengruppe nach § 3 BGV B4: III (German regulatory requirements)

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

§ 5Abs. 4b : Derogation according to the Ordinance on the Prohibition of Chemicals (ChemVerbotsV)

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

### 15.2 Chemical Safety Assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

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## SECTION 16: Other information

### Full text of H-Statements

|      |  |
|------|--|
| H225 | : Highly flammable liquid and vapor.       |
| H226 | : Flammable liquid and vapor.              |
| H240 | : Heating may cause an explosion.          |
| H302 | : Harmful if swallowed.                    |
| H314 | : Causes severe skin burns and eye damage. |
| H318 | : Causes serious eye damage.               |
| H319 | : Causes serious eye irritation.           |
| H335 | : May cause respiratory irritation.        |
| H336 | : May cause drowsiness or dizziness.       |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CHP Härter

Version 2.1 DE / EN Revision Date: 05.12.2023 Date of last issue: 01.07.2022  
Date of first issue: 01.07.2022

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H361d : Suspected of damaging the unborn child.  
EUH066 : Repeated exposure may cause skin dryness or cracking.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Flam. Liq. : Flammable liquids  
Org. Perox. : Organic peroxides  
Repr. : Reproductive toxicity  
Skin Corr. : Skin corrosion  
STOT SE : Specific target organ toxicity - single exposure  
2017/164/EU : Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values  
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.  
2017/164/EU / STEL : Short term exposure limit  
2017/164/EU / TWA : Limit Value - eight hours  
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## CHP Härter

Version  
2.1

DE / EN

Revision Date:  
05.12.2023

Date of last issue: 01.07.2022  
Date of first issue: 01.07.2022

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### Classification of the mixture:

|               |       |
|---------------|-------|
| Flam. Liq. 2  | H225  |
| Org. Perox. D | H242  |
| Skin Corr. 1B | H314  |
| Eye Dam. 1    | H318  |
| Repr. 2       | H361d |
| STOT SE 3     | H336  |
| STOT SE 3     | H335  |

### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Based on product data or assessment |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |

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