

Safety Data Sheet

In accordance with (EC) No 1907/2006
taking into account Regulation (EU) 2015/830

Revised September 28, 2022 replaces version 2021.3 from May 31, 2021

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

henndrixx®

BAuA Registration no.: N-90469

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

General use: disinfectant

Identified use: Surface disinfection surfaces / work equipment, Drinking water disinfection

No use prior to discouraging is known.

1.3 Details of the supplier of the safety data sheet

easymetal GmbH

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1.4 International emergency/poison telephone number

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Germany +49 (30) 192 40

Great Britain +44 (171) 635 91 91

France +33 (3) 883 737 37

Spain +34 (91) 562 84 69

Belgium +32 (70) 245 245

Austria +43 (1) 406 43 43

Local poison centers

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

The substance is not classified according to the CLP regulation

2.2 Label elements

Labeling in accordance with Regulation (EC) No. 1272/2008: n/a

Hazard pictogram: n/a

Signal word: n/a

Hazard notes: n/a

Additional information:

Contains biocidal products: active chlorine, made from sodium chloride by electrolysis

2.3 Other hazards

Results of the PBT and vPvB assessment

PBT: inapplicable

vPvB: inapplicable

Does not contain polybutylene terephthalate (PBT) or other persistent, bioaccumulative (vPvB) substances.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 **Substances:** Mixture - Anolyte

3.2 **Mixtures:** Aqueous solution; Mixture of the substances listed below with additives free of labeling.

| <u>Component</u> | <u>Concentration</u> | <u>CAS Nr.</u> | <u>EINECS</u> | <u>Classification</u> |
|---------------------------|----------------------|----------------|---------------|-----------------------|
| Sodium hypochlorite NaOCl | 0,02-0,08 % | 7681-52-9 | 231-668-3 | |
| Sodium chloride NaCl | ≤ 0,1-0,8 % | 7647-14-5 | 231-598-3 | |
| Water H ₂ O | > 99 % | 7732-18-5 | 231-791-2 | |

Other Information:

contains no organic substances, in particular no VOC and substances from the SVHC list of the REACH regulation.

| <u>Active substances</u> | <u>Measured value</u> | <u>CAS Nr.</u> | <u>EINECS</u> | <u>Classification</u> |
|---|-----------------------|----------------|---------------|------------------------------|
| Active chlorine released from hypochlorous acid | > 300 mg/l | 7790-92-3 | 239-555-0 (I) | H290; EUH031; P410 + P412 |
| ORP (Ag/AgCl-electrodes) | +700 bis +950 mV | | | |

4. FIRST AID MEASURES

4.1 **Description of first aid measures**

After eye contact:

Not applicable when used as intended. Flush eyes sufficiently with water while keeping eyelids open. Then consult physician (ophthalmologist) immediately.

After skin contact:

Not applicable when used as intended. Remove product mechanically. Wash the affected skin areas thoroughly with soap and water. In case of skin reaction, seek medical attention.

After inhalation:

Not applicable when used as intended. Take person outside to get fresh air; medical attention is required in case of respiratory complaints.

After ingestion:

Not applicable when used as intended. Rinse mouth with plenty of water. If you feel unwell, seek medical advice.

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

No other relevant information available.

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

No other relevant information available.

5. FIREFIGHTING MEASURES

5.1 **Extinguishing media:**

Product itself does not burn. Match fire extinguishing measures to the surrounding fire.

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

The surrounding fire may release chlorine compounds.

5.3. **Advice for firefighters**

In the event of a fire, wear self-contained breathing apparatus if and where necessary.

6. ACCIDENTAL RELEASE MEASURES

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

The general regulations for handling chemicals must be observed.

6.2. **Environmental precautions**

Do not allow to enter sewers / surface or ground water in large quantities.

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

Absorb with liquid-binding material (sand, diatomite, acid binder, universal binder, sawdust).

6.4. **Reference to other sections**

No dangerous substances are released.

Information for safe handling, see section 7.

Information about personal protective equipment, see section 8.

7. HANDLING AND STORAGE

7.1. **Precautions for safe handling**

Ensure good ventilation of the warehouse and workplace.

Wear protective glasses when filling, refilling and filling the concentrate

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

Storage:

Requirements for storage rooms and containers: Only store in the original container, keep the container tightly closed.

Protect from frost and direct sunlight. Empholene storage temperature 5 to 25 ° C.

Information about storage in one common storage facility: Must not come into contact with acids

Storage class: 12 (non-flammable liquids)

Advice on protection against fire and explosion: no special notes

Classification according to industrial safety regulations (BetrSichV): -

7.3. **Specific end use(s)**

Follow the instructions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems:

No further details, see section 7.

8.1. **Control parameters**

Components with workplace-related limit values to be monitored: n/a

DNEL values: No data available

PNEC values: No data available

Additional notes: The lists valid during the preparation were used as a basis.

8.2. **Exposure controls**

Appropriate engineering controls (ventilation):

Ensure good ventilation.

A ventilation system is not required when used as intended

Individual protection measures, such as personal protective equipment:

Respiratory protection:
Not required when used as intended.

Eye protection:
Wear safety-glasses; EN 166

Hand protection and material of gloves:
Not required when used as intended.

Body protection:
Not required when used as intended.

Environmental exposure controls:

No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Liquid, colorless, clear

Odour: faint smell of chlorine

pH value at 20°C: 6,5-7,5

Melting point/freezing point: 0°C at normal pressure (1013 Pa)

Initial boiling point and boiling range: 100°C at normal pressure (1013 Pa)

Flash point: approx. 200°C

Evaporation rate: No data available

Flammability (solid, gas): non-flammable

Upper/lower flammability or explosive limits: No data available

Vapour pressure: No data available

Vapour density: No data available

Density at 20°C: approx. 1 g/m³

Water solubility: completely miscible

Auto-ignition temperature: not self-igniting

Decomposition temperature: 170°C

Viscosity: No data available

Explosive properties: Not subject to explosions; Does not react exothermically with combustible material

Oxidising properties: Solutions <10% not more corrosive than water

9.2 Other information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical Stability

Stable under recommended storage conditions

- 10.3 **Possibility of hazardous reactions**
Reacts with acids to form chlorine.
- 10.4 **Conditions to avoid**
Protect from heat and direct sunlight.
- 10.5 **Incompatible materials**
Acids
- 10.6 **Hazardous decomposition products**
Formation of sodium chlorate (thermal decomposition); in contact with acids chlorine gas

11. TOXICOLOGICAL INFORMATION

- 11.1 **Information on toxicological effects**
Acute toxicity: No data available
Chemical burn/skin irritation: No data available
Serious eye damage/irritation: In the HET-CAM Stimulus value 0
Respiratory or skin sensitization: No data available
Germ cell mutagenicity: No data available
Carcinogenicity: IARC: No component of this product present in a concentration equal to or higher than 0.1% is identified by the IARC as a probable, potential or proven carcinogen for humans.
Reproductive toxicity: No data available
Reproductive toxicity: No data available
Specific target organ toxicity - single exposure: No data available
Specific target organ toxicity - repeated exposure: No data available
Aspiration hazard: No data available
Additional information:
Data about sodium hypochlorite: LD₅₀ Rat orally: > 5.000 mg/kg
Rabbit dermal: < 5.000 mg/kg
Information on medical devices with the same active ingredient: Consensus on Wound Antisepsis:
Update 2018 in Skin Pharmacol Physiol 2018; 31: 28-58

12. ECOLOGICAL INFORMATION

- 12.1 **Toxicity:** Data for hypochlorous acid - CAS: 7790-92-3
Endpoints for acute aquatic toxicity: LC₅₀ fish > 0,032 mg/l - 96 h
LC₅₀ crustaceans > 0,032 mg/l - 48 h
LC₅₀ algae = 46 mg/l - 96 h
Other information: No classification according to the calculation method of the „General classification guidelines for Mixtures of the EC „in the latest valid version.
- 12.2 **Persistence and degradability:** Not persistent; reacts quickly with organic material.
Behavior in sewage treatment plants: If low concentrations are introduced, no disturbances in the degradation activity in biological sewage treatment plants are to be expected.
- 12.3 **Bioaccumulative potential:** Not relevant: The product consists of 99% water and approx. 1% salts and hypochlorous acid.
- 12.4 **Mobility in soil:** No data available

- 12.5 **Results of the PBT and vPvB assessment:**
A PBT/vPvB assessment is not available since a chemical safety assessment has been carried out/is not required.
- 12.6 **Other adverse effects:** No data available
- 12.7 **Other adverse effects:** Do not release into the environment in an uncontrolled manner.
Ecotoxicological data are not available. According to current knowledge, negative ecotoxicological effects are not to be expected.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product:

Recommendation: Disposal in accordance with official regulations.

Disinfectant 535007 91 according to ÖNORM S 2100

European waste catalog: The EWC waste code is based on origin. This can lead to a different classification.
The decision is up to the last user.

16 03 04 inorganic wastes other than those mentioned in 16 03 03

18 01 07 chemicals other than those mentioned in 18 01 06

20 01 30 detergents other than those mentioned in 20 01 29

Packaging:

Recommendation: Disposal in accordance with official regulations. Empty and uncontaminated packaging can be recycled.

14. TRANSPORT INFORMATION

Not dangerous cargo. Keep separate from food and beverages

14.1 UN-Number

ADR, ADN, IMDG, IATA not required

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA not required

14.3 Transport hazard class(es)

ADR/RID: Not dangerous goods

ADN: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.4 Packing group

ADR, IMDG, IATA not required

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

14.8 **Additional Information**

ADR comments: Not a hazardous material in accordance with RID/ADR/GGVS
UN „Model Regulation“: -

15. REGULATORY INFORMATION

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

Storage class: 12 = non-flammable liquids

Water hazard class: WGK 1 (self-classification): slightly hazardous to water

Other regulations, restrictions and prohibition regulations:

VOC content: not applicable

Special worrying substances (SVHC) according to REACH, Article 57, are not included.

15.2 **Chemical safety assessment**

Not applicable

16. ADDITIONAL INFORMATION

Wording of the H- and P-phrases under section 3

H290 = Can be corrosive to metals

EUH031 = Develops toxic gases on contact with acid

P410 = Protect from sunlight.

P412 = Do not expose to temperatures above 50 ° C / 122 ° F

Literature

Accident Prevention Regulations (UVV) - Principles of Prevention (DGUV-V1)

This safety data sheet replaces all previous versions

The data and information is based on the present state of our knowledge; however, they represent no assurance of product features and do not establish a legal contractual relationship. They only refer to the designated product and may no longer apply if the product is used along with other materials or in a handling or operational process. Users must verify for themselves that all statements are appropriate and complete for their application or usage.

All older versions are no longer valid.

ABBREVIATIONS AND ACRONYMS

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

GGVSE: Ordinance on the National and Cross-Border Transport of Dangerous Goods by Road, with railways and on inland waters

DGR: Dangerous Goods Regulations

TA-Luft: Technical instructions for keeping the air clean

VwVwS: Administrative regulation of water-polluting substances

VOC: Volatile organic compounds

CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures