

SAFETY DATA SHEET

2K-Reiniger Holz außen 1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name: 2K-Reiniger Holz außen 1
 ▼ *Other names / Synonyms:* 2K-Cleaner Wood 1
Unique formula identifier (UFI): 5Q93-84DV-468H-0535

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

Relevant identified uses of the substance or mixture: surface cleaner
Uses advised against : None known.

1.3. Details of the supplier of the safety data sheet

Company and address: **Auro Pflanzenchemie AG**
 Alte Frankfurter Straße 211A
 38122 Braunschweig
 Deutschland
 +49 (0)531 28141 0
 +49 (0)531 28141 70
 www.auro.de

Contact person: Zentrale
E-mail: msds@auro.de
Revision: 27/01/2026
SDS Version: 1.0
Date of previous version: 27/01/2026 (1.0)

1.4. Emergency telephone number

Notrufnummer: +49 531 28141-20
 Diese Nummer ist nur zu Bürozeiten besetzt.

SECTION 2: HAZARDS IDENTIFICATION

Classified according to Regulation (EC) No. 1272/2008 (CLP).

2.1. Classification of the substance or mixture

Met. Corr. 1; H290, May be corrosive to metals.
 Skin Corr. 1B; H314, Causes severe skin burns and eye damage.
 Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

May be corrosive to metals. (H290)
Causes severe skin burns and eye damage. (H314)

Precautionary statement(s):

General:

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

Prevention:

Wear eye protection/protective gloves/protective clothing. (P280)

Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. (P303+P361+P353)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

Storage:

Not applicable.

Disposal:

Dispose of contents/container in accordance with local regulation. (P501)

Hazardous substances:

sodium hydroxide

Additional labelling:

UFI: 5Q93-84DV-468H-0535

2.3. Other hazards

Additional warnings:

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

| Product/substance | Identifiers | % w/w | Classification | Note |
|-------------------|-------------|-------|----------------|------|
|-------------------|-------------|-------|----------------|------|

| | | | | |
|------------------|--|------|---|--|
| sodium hydroxide | CAS No.: 1310-73-2 EC No.: 215-185-5 REACH: 01-2120767290-55-XXXX Index No.: 011-002-00-6 | 3-5% | Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %) | |
|------------------|--|------|---|--|

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment. Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact:

If in eyes: Flush eyes with plenty of water or saline solution (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion:

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the

injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns: Not applicable.

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

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

IF exposed or concerned:
Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides

5.3. Advice for firefighters

To avoid contact with the substance, wear self-contained breathing apparatus and protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.
Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.
Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Store in a container with a resistant inner liner.

Joint storage is permitted for products in storage classes: 2A, 2B, 3, 4.1B, 5.1B, 6.1A, 6.1B, 6.1C, 6.1D, 8A, 8B, 10, 11, 12, 13

Restrictions apply to joint storage of products in storage classes: 4.1A, 4.2, 4.3, 5.1C

Joint storage is NOT allowed for products in all other storage classes.

Recommended storage material: Keep only in original packaging.

Storage class: Storage class 8 B (Non-combustible corrosive substances).
TRGS 510 - Storage of hazardous substances in non-stationary containers.

Storage conditions: Dry, cool and well ventilated

Incompatible materials: Aluminium

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

DNEL

sodium hydroxide

| Duration: | Route of exposure: | DNEL: |
|--|--------------------|---------------------|
| Long term – Local effects - General population | Inhalation | 1 mg/m ³ |
| Long term – Local effects - Workers | Inhalation | 1 mg/m ³ |

PNEC

No data available.

8.2. Exposure controls

Apply general control to prevent unnecessary exposure

General recommendations: Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios: There are no exposure scenarios implemented for this product.

Exposure limits: Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures: Ensure that eyewash stations and safety showers are located within easy reach.
Apply standard precautions during use of the product.
Avoid inhalation of vapours.

Hygiene measures: In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure: Keep damming materials near the workplace. If possible, collect spillage during work.


Individual protection measures, such as personal protective equipment

Generally: Use only CE marked protective equipment.


Respiratory Equipment:

| Type | Class | Colour | Standards | |
|--|-------|--------|-----------|--|
| Respiratory protection is not needed in the event of adequate ventilation. | | | | |

Skin protection:

| Recommended | Type/Category | Standards | |
|---|---------------|-----------|---|
| Dedicated work clothing should be worn. | - | - |  |


Hand protection:

| Material | Glove thickness (mm) | Breakthrough time (min.) | Standards | |
|----------|----------------------|--------------------------|---------------------------|---|
| Nitrile | 0,5 | > 120 | EN374-2, EN16523-1, EN388 |  |

When handling chemical agents, only chemical protective gloves with a CE mark including a four-digit test number may be worn. The design of chemical protective gloves must be selected specifically for the workplace, depending on the concentration and quantity of

hazardous substances. It is recommended to clarify the chemical resistance of the above-mentioned protective gloves for special applications with the glove manufacturer.

Eye protection:

| Type | Standards | |
|-----------------------------------|-----------|---|
| Safety glasses with side shields. | EN166 |  |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|------------------------------------|----------------------------|
| <i>Physical state:</i> | Liquid |
| <i>Colour:</i> | Colourless, Transparent |
| <i>Odour / Odour threshold:</i> | Characteristic |
| <i>pH:</i> | - |
| <i>pH in solution:</i> | (12-13%) |
| <i>Density (g/cm³):</i> | 1.02 |
| <i>Kinematic viscosity:</i> | Not applicable |
| <i>Dynamic viscosity:</i> | 27 mPa.s (20 °C) |
| <i>Particle characteristics:</i> | Does not apply to liquids. |

Phase changes

| | |
|---|----------------------------|
| <i>Melting point/Freezing point (°C):</i> | Not applicable |
| <i>Softening point/range (°C):</i> | Does not apply to liquids. |
| <i>Boiling point (°C):</i> | 102 |
| <i>Vapour pressure:</i> | Not applicable |
| <i>Relative vapour density:</i> | No data available. |
| <i>Decomposition temperature (°C):</i> | No data available |

Data on fire and explosion hazards

| | |
|---|----------------|
| <i>Flash point (°C):</i> | Not applicable |
| <i>Flammability (°C):</i> | Not applicable |
| <i>Auto-ignition temperature (°C):</i> | Not applicable |
| <i>Lower and upper explosion limit (% v/v):</i> | Not applicable |

Solubility

| | |
|--|--------------------|
| <i>Solubility in water:</i> | Completely soluble |
| <i>n-octanol/water coefficient (LogKow):</i> | No data available. |

Solubility in fat (g/L): No data available.

9.2. Other information

Metals that are corroded: Aluminium, Zink, Zinn

Evaporation rate (n-butylacetate = 100): Not applicable

Other physical and chemical parameters: No data available.

Oxidizing properties: No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Aluminium

10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute toxicity

Based on available data for the mixture, the classification criteria are not met.

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory sensitisation

Based on available data for the mixture, the classification criteria are not met.

Skin sensitisation

Based on available data for the mixture, the classification criteria are not met.

Germ cell mutagenicity

Based on available data for the mixture, the classification criteria are not met.

Carcinogenicity

Based on available data for the mixture, the classification criteria are not met.

Reproductive toxicity

Based on available data for the mixture, the classification criteria are not met.

STOT-single exposure

Based on available data for the mixture, the classification criteria are not met.

STOT-repeated exposure

Based on available data for the mixture, the classification criteria are not met.

Aspiration hazard

Based on available data for the mixture, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

11.2. Information on other hazards

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Based on available data for the mixture, the classification criteria are not met.

12.2. Persistence and degradability

Based on available data for the mixture, the classification criteria are not met.

12.3. Bioaccumulative potential

Based on available data for the mixture, the classification criteria are not met.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 8 – Corrosive

Dispose of contents/container to an approved waste disposal plant.




Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code: Not applicable.

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

| | 14.1 UN / ID | 14.2 UN proper shipping name | 14.3 Hazard class(es) | 14.4 PG* | 14.5 Env** | Other informat ion: |
|-----------------|-----------------|---------------------------------|---|-------------|---------------|--|
| ADR/ADN/ RID | UN1824 | SODIUM HYDROXIDE SOLUTION | Transport hazard class: 8 Label: 8 Classification code: C5  | III | No | Limited quantities: 5 L Tunnel restriction code: (E) See below for additional information. |
| IMDG | UN1824 | SODIUM HYDROXIDE SOLUTION | Transport hazard class: 8 Label: 8 Classification code: C5  | III | No | Limited quantities: 5 L EmS: F-A S-B See below for additional information. |
| IATA | UN1824 | SODIUM HYDROXIDE SOLUTION | Transport hazard class: 8 Label: 8 Classification code: C5  | III | No | See below for additional information. |

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods. ADR/ADN/RID / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: REGULATORY INFORMATION

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

| | |
|--|--|
| <i>Restrictions for application:</i> | People under the age of 18 shall not be exposed to this product. |
| <i>Demands for specific education:</i> | No specific requirements. |
| <i>SEVESO - Categories / dangerous substances:</i> | Not applicable. |
| <i>WGK classification:</i> | WGK class: WGK 1 |
| <i>Additional information:</i> | Tactile warning. If this product is sold in retail, it must be delivered with child-resistant fastening. |
| <i>Sources:</i> | Law for the Protection of Working Youth (Youth Employment Protection Act - JArbSchG). Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents. Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste. Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). |

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

- H290, May be corrosive to metals.
- H314, Causes severe skin burns and eye damage.
- H315, Causes skin irritation.
- H319, Causes serious eye irritation.

Abbreviations and acronyms

- ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- CAS = Chemical Abstracts Service
- CE = Conformité Européenne (European conformity)
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- CSA = Chemical Safety Assessment
- CSR = Chemical Safety Report
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EINECS = European Inventory of Existing Commercial chemical Substances
- ES = Exposure Scenario
- EUH statement = CLP-specific Hazard statement
- EuPCS = European Product Categorisation System
- EWC = European Waste Catalogue
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- GWP = Global warming potential
- IARC = International Agency for Research on Cancer (IARC)
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- OECD = Organisation for Economic Co-operation and Development
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
- RRN = REACH Registration Number
- SCL = A specific concentration limit
- SVHC = Substances of Very High Concern
- STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
- STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The safety data sheet is validated by

Arva Greentech Deutschland GmbH

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.

Information in this safety data sheet cannot be used as a product specification.

Country-language: DE-en

SAFETY DATA SHEET

2K-Reiniger Holz außen 2

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name: 2K-Reiniger Holz außen 2
▼ Other names / Synonyms: 2K-Cleaner Wood 2
Unique formula identifier (UFI): H000-50S1-000V-U0HT

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

Relevant identified uses of the substance or mixture: surface cleaner
Uses advised against : None known.

1.3. Details of the supplier of the safety data sheet

Company and address: **Auro Pflanzenchemie AG**
 Alte Frankfurter Straße 211A
 38122 Braunschweig
 Deutschland
 +49 (0)531 28141 0
 +49 (0)531 28141 70
 www.auro.de

Contact person: Zentrale
E-mail: msds@auro.de
Revision: 27/01/2026
SDS Version: 1.0
Date of previous version: 27/01/2026 (1.0)

1.4. Emergency telephone number

Notrufnummer: +49 531 28141-20
 Diese Nummer ist nur zu Bürozeiten besetzt.

SECTION 2: HAZARDS IDENTIFICATION

Classified according to Regulation (EC) No. 1272/2008 (CLP).

2.1. Classification of the substance or mixture

Eye Irrit. 2; H319, Causes serious eye irritation.

2.2. Label elements

Hazard pictogram(s):



Signal word:

Warning

Hazard statement(s):

Causes serious eye irritation. (H319)

Precautionary statement(s):

General:

If medical advice is needed, have product container or label at hand. (P101)

Keep out of reach of children. (P102)

Prevention:

Wear eye protection/protective gloves/protective clothing. (P280)

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

If eye irritation persists: Get medical advice/attention. (P337+P313)

Storage:

Not applicable.

Disposal:

Dispose of contents/container in accordance with local regulation. (P501)

Hazardous substances:

hydrogen peroxide solution ...%

Additional labelling:

UFI: H000-50S1-000V-U0HT

Labelling of contents according to Detergents Regulation (EC) No 648/2004 (applicable to packaging of detergents sold to the general public):

≥5% - <15%

· Oxygen-based bleaching Agents

2.3. Other hazards

Additional warnings:

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

| Product/substance | Identifiers | % w/w | Classification | Note |
|---------------------------------|--|-------|--|------|
| hydrogen peroxide solution ...% | CAS No.: 7722-84-1 EC No.: 231-765-0 REACH: 01-2119485845-22-XXXX Index No.: 008-003-00-9 | 5-10% | Ox. Liq. 1, H271 Acute Tox. 4, H302 Skin Corr. 1A, H314 (SCL: 70.00 %) Skin Corr. 1B, H314 (SCL: 50.00 %) Skin Irrit. 2, H315 (SCL: 35.00 %) Eye Dam. 1, H318 (SCL: 8.00 %) Eye Irrit. 2, H319 (SCL: 5.00 %) Acute Tox. 4, H332 STOT SE 3, H335 (SCL: 35.00 %) | |

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

Eye contact:

If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion:

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns: Not applicable.

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

If eye irritation persists: Get medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters

To avoid contact with the substance, wear self-contained breathing apparatus and protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas.
Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.
Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Joint storage is permitted for products in storage classes: 2A, 2B, 3, 4.1B, 4.2, 5.1A, 5.1B, 5.2, 6.1A, 6.1B, 6.1C, 6.1D, 8A, 8B, 10, 11, 12, 13

Restrictions apply to joint storage of products in storage classes: 4.1A, 4.3, 5.1C

Joint storage is NOT allowed for products in all other storage classes.

Recommended storage material: Keep only in original packaging.

Storage class: Storage class 12 (Non-combustible liquids).
TRGS 510 - Storage of hazardous substances in non-stationary containers.

Storage conditions: Dry, cool and well ventilated
Protect from heat. Protect against direct sunlight.

Incompatible materials: Light metal

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

hydrogen peroxide solution ...%

Long term exposure limit (8 hours) (ppm): 0,5

Long term exposure limit (8 hours) (mg/m³): 0,71

Short term exposure limit (15 minutes) (ppm): 0,5

Short term exposure limit (15 minutes) (mg/m³): 0,71

Category for short-term values: I

Annotations:

DFG = Senate Commission for the examination of Harmful working materials of the DFG (MAK Commission)

Y = No risk of fetal damage is to be feared if the occupational exposure limit (OEL) value and the biological limit value (BLV) are adhered to.

Technical requirements for hazardous substances, workplace exposure limits, TRGS 900 (Jan. 2006)

DNEL

hydrogen peroxide solution ...%

| Duration: | Route of exposure: | DNEL: |
|--|--------------------|-----------------------|
| Long term – Local effects - General population | Inhalation | 210 µg/m ³ |

| | | |
|---|------------|------------------------|
| Long term – Local effects - Workers | Inhalation | 1.4 mg/m ³ |
| Short term – Local effects - General population | Inhalation | 1.93 mg/m ³ |
| Short term – Local effects - Workers | Inhalation | 3 mg/m ³ |

PNEC

hydrogen peroxide solution ...%

| Route of exposure: | Duration of Exposure: | PNEC: |
|-----------------------------------|-----------------------|-----------|
| Freshwater | | 12.6 µg/L |
| Freshwater sediment | | 47 µg/kg |
| Intermittent release (freshwater) | | 13.8 µg/L |
| Marine water | | 12.6 µg/L |
| Marine water sediment | | 47 µg/kg |
| Sewage treatment plant | | 4.66 mg/L |
| Soil | | 2.3 µg/kg |

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures:

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked. Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure:

No specific requirements.

Individual protection measures, such as personal protective equipment

Generally:


Use only CE marked protective equipment.

Respiratory Equipment:


| Type | Class | Colour | Standards | |
|--|-------|--------|-----------|--|
| Respiratory protection is not needed in the event of adequate ventilation. | | | | |

Wear respiratory protection in case of insufficient ventilation.

Skin protection:


| Recommended | Type/Category | Standards | |
|---|---------------|-----------|---|
| Dedicated work clothing should be worn. | - | - |  |

Hand protection:

| Material | Glove thickness (mm) | Breakthrough time (min.) | Standards | |
|----------|----------------------|--------------------------|---------------------------|--|
| Nitrile | 0,5 | > 120 | EN374-2, EN16523-1, EN388 |  |

When handling chemical agents, only chemical protective gloves with a CE mark including a four-digit test number may be worn. The design of chemical protective gloves must be selected specifically for the workplace, depending on the concentration and quantity of hazardous substances. It is recommended to clarify the chemical resistance of the above-mentioned protective gloves for special applications with the glove manufacturer.

Eye protection:

| Type | Standards | |
|-----------------------------------|-----------|---|
| Safety glasses with side shields. | EN166 |  |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|------------------------------------|----------------------------|
| <i>Physical state:</i> | Liquid |
| <i>Colour:</i> | Clear, Colourless |
| <i>Odour / Odour threshold:</i> | None |
| <i>pH:</i> | 4 |
| <i>Density (g/cm³):</i> | 1.026 (20 °C) |
| <i>Kinematic viscosity:</i> | No data available |
| <i>Dynamic viscosity:</i> | 1,1 mPa.s (20 °C) |
| <i>Particle characteristics:</i> | Does not apply to liquids. |

Phase changes

| | |
|---|----------------------------|
| <i>Melting point/Freezing point (°C):</i> | Not applicable |
| <i>Softening point/range (°C):</i> | Does not apply to liquids. |
| <i>Boiling point (°C):</i> | 101.7 |
| <i>Vapour pressure:</i> | 22 hPa (20 °C) |
| <i>Relative vapour density:</i> | No data available |
| <i>Decomposition temperature (°C):</i> | No data available |

Data on fire and explosion hazards

| | |
|---|--------------------|
| <i>Flash point (°C):</i> | No data available |
| <i>Flammability (°C):</i> | No data available |
| <i>Auto-ignition temperature (°C):</i> | No data available |
| <i>Lower and upper explosion limit (% v/v):</i> | No data available. |

Solubility

| | |
|--|--------------------|
| <i>Solubility in water:</i> | Completely soluble |
| <i>n-octanol/water coefficient (LogKow):</i> | No data available. |
| <i>Solubility in fat (g/L):</i> | No data available. |

9.2. Other information

| | |
|---|---|
| <i>Evaporation rate (n-butylacetate = 100):</i> | No data available |
| <i>Other physical and chemical parameters:</i> | No data available. |
| <i>Oxidizing properties:</i> | Kann Brand verstärken; Oxidationsmittel. May intensify fire; oxidiser. |

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Sunlight

10.5. Incompatible materials

Metal

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute toxicity

Based on available data for the mixture, the classification criteria are not met.

Skin corrosion/irritation

Based on available data for the mixture, the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory sensitisation

Based on available data for the mixture, the classification criteria are not met.

Skin sensitisation

Based on available data for the mixture, the classification criteria are not met.

Germ cell mutagenicity

Based on available data for the mixture, the classification criteria are not met.

Carcinogenicity

Based on available data for the mixture, the classification criteria are not met.

Reproductive toxicity

Based on available data for the mixture, the classification criteria are not met.

STOT-single exposure

Based on available data for the mixture, the classification criteria are not met.

STOT-repeated exposure

Based on available data for the mixture, the classification criteria are not met.

Aspiration hazard

Based on available data for the mixture, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

11.2. Information on other hazards

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

hydrogen peroxide solution ...% has been classified by IARC as a group 3 carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Based on available data for the mixture, the classification criteria are not met.

12.2. Persistence and degradability

Based on available data for the mixture, the classification criteria are not met.

12.3. Bioaccumulative potential

Based on available data for the mixture, the classification criteria are not met.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 8 – Corrosive

Dispose of contents/container to an approved waste disposal plant.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code: Not applicable.

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

| | 14.1 UN / ID | 14.2 UN proper shipping name | 14.3 Hazard class(es) | 14.4 PG* | 14.5 Env** | Other informat ion: |
|-----------------|-----------------|---------------------------------|--------------------------|-------------|---------------|---------------------------|
| ADR/ADN/ RID | - | - | - | - | - | - |
| IMDG | - | - | - | - | - | - |
| IATA | - | - | - | - | - | - |

* Packing group

** Environmental hazards

Additional information

Not dangerous goods according to ADR/ADN/RID, IATA and IMDG.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: REGULATORY INFORMATION

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

Restrictions for application: No special.

Demands for specific education: No specific requirements.

SEVESO - Categories / dangerous substances: Not applicable.

Regulation on explosives precursors: hydrogen peroxide solution ...% (Annex I)
This product is regulated by Regulation (EU) 2019/1148:
All suspicious transactions and the loss and theft of significant quantities must be reported to the relevant national contact point.

Labelling of contents according to Detergents Regulation (EC) No 648/2004: ≥5% - <15%
· Oxygen-based bleaching Agents

WGK classification: WGK class: WGK 1

Additional information: Not applicable.

Sources: Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.
Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.
Council Regulation (EC) No 2019/1148 on explosives precursors.
Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H271, May cause fire or explosion; strong oxidiser.
H302, Harmful if swallowed.
H314, Causes severe skin burns and eye damage.
H315, Causes skin irritation.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.
H332, Harmful if inhaled.
H335, May cause respiratory irritation.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The safety data sheet is validated by

Arva Greentech Deutschland GmbH

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.

Information in this safety data sheet cannot be used as a product specification.

Country-language: DE-en