

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Trade name: Calibration standard 4 g/L Ethanol

Revision date: 2 May 2024

Version: 4

Replace version: 3

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Calibration standard 4 g/L Ethanol

Part number: 850.302.002

Other means of identification: BPT0056

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

Relevant identified uses: Aqueous mixture for the purpose of analysis in laboratories

Uses advised against: No information available

1.3 Details of the supplier of the safety data sheet

Company: 908 Devices GmbH

Rebenring 31

38106 Braunschweig

Germany

Phone: +49 531-209008-0

Email: info.eu@908devices.com

Homepage: www.908devices.com

Emergency phone no.: +1 844 908 - 4357

2. Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous mixture according to Regulation (EC) No. 1272/2008.

Based on available data, the classification criteria (CLP Classification) are not met for this mixture.

2.2 Label elements

None required.

2.3 Other hazards

No information available.

3. Composition / Information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

Aqueous mixture of nonhazardous substances.

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4. First aid measures

4.1 Description of first aid measures

General information: Special action is not required.

Following inhalation: Special action is not required.

Following skin contact: Wash off with water.

Following eye contact: Flush eyes for several minutes under running water holding eyelids apart.

Following ingestion: Rinse mouth with water and drink sufficient water. If symptoms persist seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

After eye contact: may cause irritations.

4.3 Indication of any immediate medical attention and special treatment needed

Special action is not required.

5. Firefighting measures

5.1 Extinguishing media:

- **Suitable extinguishing media:** No data available.

- **Unsuitable extinguishing media:** No data available.

5.2 Special hazards arising from the substance or mixture: The product is noncombustible, extinguishing measures to be harmonized with the environment.

5.3 Advice for firefighters: The product itself does not burn.

In case of surrounding fires: Wear self-contained breathing apparatus.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Avoid contact with eyes and skin.

For emergency responders: Personal protection, see section 8.

6.2 Environmental precautions: Avoid entry in soil, waterbodies or drains in large quantities (>5L).

6.3 Methods and materials for containment and cleaning up:

Large quantities (>5L) absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Small quantities (<5L) absorb with plenty of water and dispose via the sewage water system.

6.4 Reference to other sections: Safety precautions see section 8 and 13.

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7. Handling and storage

7.1 Precautions for safe handling: Avoid contact with eyes.

Advice on general occupational hygiene:

- Do not drink, eat and smoke in the laboratory.
- Washing the hands after using.
- Take off the lab coat and protective equipment outside of the laboratory.

Advice on fire and explosion protection: No data available.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessel

- Store in the dark at 2-8°C.

Hints on joint storage: Do not store together with food.

Storage class: 12 = noncombustible liquids.

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure controls / personal protection

8.1 Control parameters / Components with workplace control parameters

Contains not any harmful substances with occupational exposure limit values for intended use.

Contains not any hazardous materials with biological limit values for intended use.

8.2 Occupational exposure controls

8.2.1 Appropriate engineering controls

General industrial hygiene practice.

8.2.2 Personal protective equipment

Eye/face protection:

Protection goggles according to EN 166 are recommended during refilling.

Skin protection:

Protective gloves according to EN 374 (EC).

The glove material has to be impermeable and resistant to the product / the substance / the mixture. Due to missing tests no recommendation to the glove material can be given for the product / the substance / the mixture.

Break through time: >480 min.

Observe glove manufacturer`s instructions concerning penetrability and break through time.

Body protection: Lab coat.

Respiratory protection: Breathing protection is not required.

8.2.3 Environmental exposure controls:

Do not allow to enter undiluted product resp. in large quantities (>5L) into soil, waterbodies or drains.

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9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

- Form: Liquid.
- Colour: Colourless.

Odour: Odourless.

Odour threshold: No data available.

pH-value at 20°C: 6.6-7.0

Melting point/freezing point: No data available.

Boiling point and boiling range: 96°C.

Flash point: Not applicable.

Evaporation rate: No data available.

Flammability (solid/gas): No data available.

Upper/lower flammability of explosive limits: No data available.

Vapour pressure at 20°C: 23 hPa.

Vapour density: No data available.

Relative density at 20°C: 1.00 g/cm³.

Water solubility: Soluble.

Partition coefficient: n-octanol/water: No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.

Viscosity: No data available.

Explosive properties: The product does not represent an explosive hazard.

Oxidizing properties: No data available.

Other safety information: Water content: 99.5%.

10. Stability and reactivity

Reactivity: No data available.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No decomposition if used according to specifications.

Incompatible materials: No data available.

Hazardous decomposition products: No dangerous decomposition products known.

11. Toxicological information

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

Acute Toxicity: The mixture is not classified in acute toxicity.

Skin corrosion / irritation: No irritation effects known.

Serious eye damage / eye irritation: May cause irritations.

Respiratory or skin sensitization: No sensitizing effects known.

Germ cell mutagenicity: The mixture contains no relevant substances.

Carcinogenicity: The mixture contains no relevant substances.

Reproductive toxicity: The mixture contains no relevant substances.

Specific target organ toxicity – single exposure: The mixture contains no relevant substances.

Specific target organ toxicity – repeated exposure: The mixture contains no relevant substances.

Aspiration hazard: The mixture contains no relevant substances.

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11.2 Information on other hazards:

11.2.1 Endocrine disrupting properties No data available.

11.2.2 Additional information

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12. Ecological information

Toxicity: Contains no substances known to be hazardous to the environment.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Results of PBT- and vPvB assessment: No data available.

Endocrine disrupting properties No data available.

Other adverse effects: Do not allow to enter undiluted product resp. in large quantities (>5L) into groundwater, waters or drains.

13. Disposal considerations

Waste treatment methods

Product: Small quantities (<5L) dispose with plenty of water via the sewage water system.

Contaminated packaging: Disposal according to official regulations.

Waste key number according to waste regulation: 16 05 09 (used chemicals).

Special precautions: None.

Relevant EC or other regulations: None.

14. Transport information

UN No.: Not applicable.

UN Proper shipping name: ADR/RID: - IMDG: - ICAO-TI: - IATA-DGR: -

Transport hazard class: Not applicable.

Packing group: Not applicable.

Environmental hazards: No hazards identified.

Special precautions for user: No dangerous good, see section 6-8.

Maritime transport in bulk according to IMO instruments: Not applicable.

15. Regulatory information

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

EU Regulations

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

Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable.

Regulation (EC) No 649/2012 concerning the export and import of dangerous materials: Not applicable.

Regulation (EC) No 648/2004 on detergents: Not applicable.

Authorization according to title VII of regulation (EC) No 1907/2006: Not applicable.

Restrictions according to title VIII of regulation (EC) No 1907/2006: Not applicable.

This safety data sheet complies with the requirements of regulation (EC) No 1907/2006.

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Labelling according to EU-Regulations: Observe the general safety regulations when handling chemicals. This product is not subject to specific labelling according to Regulation (EC) No. 1272/2008.

International Inventories

X=Listed

All chemical substances used in this product are listed in the following chemical substance inventory.

Europe (ECHA)	USA (TSCA)	Canada (DSL)	Philippines (PICCS)	China (IECSC)	Japan (ENCS)	Taiwan (TCSI)	Korea (KECI)	Australia (AICS)	New Zealand (NZIoC)
X	X	X	X	X	X	X	X	X	X

National regulations

Water hazard class: water hazard class 1 (self-rating): slightly hazardous to water.

Technical guideline for the handling of hazardous materials (TRGS): Not applicable.

Solvent regulation (31-BImSchv): Not applicable

15.2 Chemical Safety Assessment: For this product a chemical safety assessment is not required.

16. Other Information

Indication of changes: Update of every section according to regulation (EC) No. 2020/878 amending Annex II to regulation (EC) No 1907/2006.

Key literature references and sources for data:

- REACH regulation (EC) No. 1907/2006, last amended by regulation (EC) No. 2020/878.
- Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures.

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008:

Evaluation based on test data.

Legend:

ADR/RID: European Agreement Concerning the International Carriage of Dangerous Goods Code

IMO/IMDG: International Maritime Organization/International Maritime Dangerous Goods Code

ICAO/IATA: International Civil Aviation Organization/International Air Transport Association

IMO: International Maritime Organization

ECHA: European Chemicals Agency

TSCA: United States Toxic Substances Control Act Inventory

DSL: Domestic Substances List is an inventory of substances manufactured in, or imported into Canada

ENCS: Japan inventory of Existing and New Chemical Substances

PICCS: Philippines Inventory of Chemicals and Chemical Substances

IECSC: China Inventory of Existing Chemical Substances

KECI: Korean Existing and Evaluated Chemicals Inventory

AICS: Australian Inventory Chemical Substances

NZIoC: New Zealand Inventory of Chemicals

PBT: Persistent, Bioaccumulative, Toxic

vPvB: very Persistent and very Bioaccumulative

Training advice: Chemical hazard awareness training, incorporating labelling, safety data sheets, personal equipment and hygiene.

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Further information:

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