

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)
Classifications according to Regulation (EC) No 1272/2008.
Printdate 09 Apr 2025

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

1.1. Product name:

Metaldehyde

1.1. Catalog No.:

685145

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical
uses: R&D

1.3. Uses advised against:

HPC Standards GmbH
Am Wieseneck 7

04451 Cunnersdorf
Deutschland

Tel. +49 34291 3372-36
Fax. +49 34291 3372-39
contact@hpc-standards.com

1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36
This number is only available during office hours.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Flammable solids (Category 2), H228
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 2), H330

2.2. Label elements

2.2.1. Pictogram



2.2.2.

2.2 Label elements
Labelling according Regulation (EC) No 1272/2008
Pictogram Signal word Danger
Hazard statement(s)

H228 Flammable solid.
H301 Toxic if swallowed.
H330 Fatal if inhaled Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P284 Wear respiratory protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P310 Immediately call a POISON CENTER/doctor.
Supplemental Hazard
Statements
none
2.3 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Synonyms : Acetaldehyde polymerized
Formula : (C₂H₄O)_n
CAS-No. : 9002-91-9
Hazardous ingredients according to Regulation (EC) No 1272/2008
Component Classification Concentration
Acetaldehyde, homopolymer
CAS-No.
9002-91-9
Flam. Sol. 2; Acute Tox. 3;
Acute Tox. 2; H228, H301,
H330
≤ 100 %

3.1.1. Formula

C₈H₁₆O₄

3.1.2. Molecular Weight (g/mol)

176.21

3.1.3. CAS-No.

108-62-3

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

mixture

Carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition

- No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature 2 - 8 °C

Light sensitive.

Storage class (TRGS 510): Flammable solids

7.3 Specific end use(s)

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form: powder

Colour: white

b) Odour No data available

c) Odour Threshold No data available

d) pH 6.4 - 6.6 at 0.22 g/l at 20 °C

e) Melting point/freezing
point

Melting point/range: 190 - 196 °C

f) Initial boiling point and
boiling range

No data available

g) Flash point 55 °C - closed cup

h) Evaporation rate No data available

i) Flammability (solid, gas) The substance or mixture is a flammable solid with the category 2 j) Upper/lower
flammability or
explosive limits

No data available

k) Vapour pressure 0.05 mmHg at 25 °C

l) Vapour density No data available

m) Relative density 1.270 g/cm³ at 20 °C

n) Water solubility No data available

o) Partition coefficient: noctanol/
water

log Pow: 0.12 at 20 °C

p) Auto-ignition
temperature

No data available

q) Decomposition
temperature

No data available

r) Viscosity No data available

s) Explosive properties No data available

t) Oxidizing properties No data available

9.2 Other safety information

Bulk density 0.65 g/l

Surface tension 71.9 mN/m at 19.5 °C

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
No data available
- 10.4 Conditions to avoid
Heat, flames and sparks. Extremes of temperature and direct sunlight.
- 10.5 Incompatible materials
Strong oxidizing agents
- 10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects
Acute toxicity
LD50 Oral - Rat - 283 mg/kg(Acetaldehyde, homopolymer)
LC50 Inhalation - Rat - 4 h - 203 mg/m3(Acetaldehyde, homopolymer)
LD50 Dermal - Rabbit - 2,275 mg/kg(Acetaldehyde, homopolymer)
Remarks: Peripheral Nerve and Sensation:Recording from peripheral motor nerve. Lungs, Thorax, or
Respiration:Dyspnea.
Skin corrosion/irritation
Skin - Rabbit(Acetaldehyde, homopolymer)
Result: No skin irritation - 4 h Serious eye damage/eye irritation
No data available(Acetaldehyde, homopolymer)
Respiratory or skin sensitisation
No data available(Acetaldehyde, homopolymer)
Germ cell mutagenicity
Result: Not mutagenic in Ames Test
Histidine reversion (Ames)
Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as
probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity
No data available(Acetaldehyde, homopolymer)
Specific target organ toxicity - single exposure
No data available(Acetaldehyde, homopolymer)
Specific target organ toxicity - repeated exposure
No data available
Aspiration hazard
No data available(Acetaldehyde, homopolymer)
Additional Information
RTECS: AB3042000
Diarrhoea, Nausea, Vomiting, Convulsions, Coma., To the best of our knowledge, the chemical, physical,
and toxicological properties have not been thoroughly investigated.(Acetaldehyde, homopolymer)

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity
No data available
- 12.2 Persistence and degradability
No data available
- 12.3 Bioaccumulative potential
No data available
- 12.4 Mobility in soil
No data available(Acetaldehyde, homopolymer)

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

Harmful to aquatic life.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: 1332 IMDG: 1332 IATA: 1332

14.2 UN proper shipping name

ADR/RID: METALDEHYDE

IMDG: METALDEHYDE

IATA: Metaldehyde

14.3 Transport hazard class(es)

ADR/RID: 4.1 IMDG: 4.1 IATA: 4.1

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

15. REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!