

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) 2015/830)

Acetic acid-d4

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

1.1. Product identifier

Product name Acetic acid-d4

CAS-No. 1186-52-3 **EC-No.** 214-693-4 **Product code** None.

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

Use of the Substance/Mixture Solvent for NMR spectroscopy

1.3. Details of the supplier of the safety data sheet

Company/Undertaking

Identification

Zeochem AG, www.zeochem.ch Joweid 5, 8630 Rüti, Schweiz

Tel.: +41 44 922 93 93 E-Mail: info@zeochem.ch

1.4. Emergency telephone

number

Tox-Zentrum Zürich : 145 / +41 44 251 51 51 [24h/7d]

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Version GHS 4 (Previous versions: GHS 3)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Skin corrosion/irritation, Cat. 1A, H314 Regulation (EC) No. 1272/2008 Flammable liquids, Cat. 3, H226

Additional information For the full text of the phrases mentioned in this Section, see

Section 16.

2.2. Label elements





Signal Word Danger

Hazard Statements H226: Flammable liquid and vapour.

H314: Causes severe skin burns and eye damage.

Precautionary statements P210b: Keep away from heat, hot surfaces, sparks, open flames

and other ignition sources. No smoking. P233: Keep container tightly closed.

P243: Take precautionary measures against static discharge. P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264a: Wash skin thoroughly after handling.

P280: Wear protective gloves/ protective clothing/ eye protection/

face protection.

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/shower.

P304+P340: IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

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

do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

P403+P235: Store in a well-ventilated place. Keep cool. P501: Dispose of contents/ container to an approved waste

disposal plant.

Supplemental information None.

Product identifier Acetic acid-d4, CAS-No. 1186-52-3, EC-No. 214-693-4

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.1. Substances

Components		Product identifier
Acetic acid-d4	> 90%	CAS-No.: 1186-52-3 EC-No.: 214-693-4

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None known.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move to fresh air. Consult a physician after significant exposure.

Skin contact Wash off immediately with plenty of water. Consult a physician for

severe cases.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and

consult a physician. Protect unharmed eye.

Ingestion Clean mouth with water and drink afterwards plenty of water. Do not

induce vomiting. Consult a physician for severe cases.

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

None known.

4.3. Indication of any immediate medical attention and special

treatment needed

None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use dry chemical, CO2, water spray or alcohol foam.

Extinguishing media which must not be used for safety reasons

High volume water jet.

5.2. Special hazards arising from the substance or mixture

Solvents may produce excessive pressure under fire-conditions. Sealed containers may rupture and ignite. Cool containers / tanks

with water spray. Burning produces irritant fumes.

5.3. Advice for firefighters

Special protective equipment for

firefighters

Standard procedure for chemical fires.

Do not use a solid water stream as it may scatter and spread fire. Specific methods

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency

personnel

No special measures required.

Advice for emergency

responders

Handle in accordance with good industrial hygiene and safety

practice.

6.2. Environmental precautions No special environmental precautions required.

6.3. Methods and material for containment and cleaning up

Clean up promptly by sweeping or vacuum. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). After cleaning, flush away traces with water.

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Provide sufficient air exchange and/or exhaust in work rooms. Plan

first aid action before beginning work with this product. Wear

personal protective equipment.

7.2. Conditions for safe storage,

including any incompatibilities

Store at room temperature in the original container.

7.3. Specific end use(s)No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s) MAK (Maximale Arbeitsplatzkonzentration): 10 ppm.

8.2. Exposure controls

Appropriate engineering controls Avoid contact with skin, eyes and clothing.

Personal protection equipment

Respiratory protection In case of mist, spray or aerosol exposure wear suitable personal

respiratory protection and protective suit.

Hand protection Gloves made of latex.

Eye protection Safety glasses with side-shields conforming to EN166.

Skin and body protection Wear as appropriate: Solvent-resistant apron and boots.

Impervious clothing.

Thermal hazards No special measures required.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

AppearanceLiquid.ColourColourless.

Odour Of vinegar. Stinging.
Odour Threshold Not determined.
pH: Not determined.

Melting point/range: 17°C
Boiling point/range: 118°C
Flash point: 40°C

Evaporation Rate:Flammability:
Not determined.
Not determined.
17% / 4%

Vapour pressure: 15.8 mbar (20°C)

Vapor density: 2.07
Relative density: 1.12 g/ml

Water solubility: completely soluble

Partition coefficient (n- -0.17

octanol/water):

Autoignition temperature: 485°C

Decomposition temperature:Not determined.Viscosity:Not determined.Explosive properties:liquid, flammable

Oxidising properties: None

9.2. Other information

General Product Characteristics No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity No information available.

10.2. Chemical stability No decomposition if used as directed.

10.3. Possibility of hazardous

reactions

No information available.

10.4. Conditions to avoid Heating in air. Burning produces obnoxious and toxic fumes.

10.5. Incompatible materials Incompatible with strong bases and oxidizing agents. Corrodes

base metals.

10.6. Hazardous decomposition

products

None under normal use.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity LDLO/oral/rat = 3310 mg/kg. LD50/dermal/rabbit = 1130 mg/kg.

Skin corrosion/irritation No data available.

Serious eye damage/eye

irritation

No data available.

Respiratory / Skin Sensitisation None.

Carcinogenicity Animal testing did not show any hazardous effects.

Germ cell mutagenicity In vitro tests did not show mutagenic effects.

Reproductive toxicity Did not show teratogenic effects in animal experiments.

Specific target organ toxicity

(single exposure)

No data available.

Specific target organ toxicity

(repeated exposure)

No data available.

Aspiration hazard No data available.

Human experience No data available.

SECTION 12: Ecological information

12.1. Toxicity EC50/24h/daphnia = 95 mg/l. LC50/48h/golden orfe = 410 mg/l.

May change pH of waters.

12.2. Persistence and

degradability

Neutralization is normally necessary before waste water is

discharged into water treatment plants. Readily biodegradable.

12.3. Bioaccumulative potential Does not bioaccumulate.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB

assessment

No information available.

12.6. Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused

products

Can be used without re-conditioning.

Contaminated packaging

Offer rinsed packaging material to local recycling facilities.

SECTION 14: Transport information

ADR/RID UN 2789.

Proper shipping name: ACETIC ACID SOLUTION.

Class 8.

Packing group II.
ADR/RID-Labels 8+3.
Classification code CF1.
Hazard identification no. 83.
Limited quantity 1 L.
Excepted quantity E2.
Tunnel restriction code D/E

IMDG UN 2789.

Proper shipping name: ACETIC ACID, GLACIAL, more than 80%

acid, by mass. Class 8.

Packing group II.
IMDG-Labels 8+3.
Limited quantity 1 L.
Excepted quantity E2.
EmS F-E, S-C.
Marine pollutant: No.

IATA UN 2789

Proper shipping name: Acetic acid, glacial.

Class 8.

Packing group II. IATA label 8+3.

Packing instruction (passenger aircraft): 851 (1 L).

Packing instruction (LQ): Y840 (0.5 L).

Packing instruction (cargo aircraft): 855 (30 L).

Inland navigation ADN UN 2789.

Proper shipping name: ACETIC ACID SOLUTION.

Class 8.

Packing group II. ADN labels 8+3.

Classification code CF1. Limited quantity 1 L. Excepted quantity E2.

Further Information None.

SECTION 15: Regulatory information

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

Regulatory Information The product is classified and labelled according to Regulation (EC)

No. 1272/2008.

15.2. Chemical safety

assessment

Not required.

SECTION 16: Other information

Key or legend to abbreviations

and acronyms

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

(GHS

MAK: Occupational exposure limit.

Full text of phrases referred to

under sections 2 and 3

H226: Flammable liquid and vapour.

H314: Causes severe skin burns and eye damage.

Further information Take notice of the directions of use on the label.

Disclaimer The information provided in this Safety Data Sheet is correct to the

best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal

and release. It is not to be considered a warranty or quality

specification.