

according to UK REACH Regulation

Acetic Acid 99 % (Glacial Acid)

Revision date: 31.05.2023 Product code: 11998.xxxxx Page 1 of 13

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

1.1. Product identifier

Acetic Acid 99 % (Glacial Acid)

Substance name: Acetic acid

REACH Registration Number: 01-2119475328-30-xxxx

CAS No: 64-19-7
Index No: 607-002-00-6
EC No: 200-580-7

UFI: 8372-T137-T00X-C7U4

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

Use of the substance/mixture

Use as laboratory reagent. The product is intended for research, analysis and scientific education.

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name: MORPHISTO GmbH
Street: Schumannstr. 142/144
Place: D-63069 Offenbach

Telephone: +49 (0) 69 / 400 3019-60 Telefax: +49 (0) 69 / 400 3019-64

e-mail: info@morphisto.de
Contact person: Morphisto GmbH

e-mail: gefahrstoffmanagement@morphisto.de

Internet: http://www.morphisto.de

1.4. Emergency telephone Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 3; H226 Skin Corr. 1A; H314

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Signal word: Danger

Pictograms:





Hazard statements

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P260 Do not breathe mist/vapours/spray.



according to UK REACH Regulation

Acetic Acid 99 % (Glacial Acid)

Revision date: 31.05.2023 Product code: 11998.xxxxx Page 2 of 13

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water or shower.

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/doctor.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:





Hazard statements

H314

Precautionary statements

P260-P280-P303+P361+P353-P305+P351+P338-P310

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1 % or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

Acetic acid.

Hazardous components

| CAS No | Chemical name | Chemical name | | | | |
|---------|--|------------------------------------|-----------------------|--|--|--|
| | EC No | Index No | REACH No | | | |
| | Classification (GB CLF | Classification (GB CLP Regulation) | | | | |
| 64-19-7 | Acetic acid | Acetic acid | | | | |
| | 200-580-7 | 607-002-00-6 | 01-2119475328-30-xxxx | | | |
| | Flam. Liq. 3, Skin Corr. 1A; H226 H314 | | | | | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| оросии со | =to,ao | | |
|-----------|----------------|--|-------------|
| CAS No | EC No | Chemical name | Quantity |
| | Specific Conc. | Limits, M-factors and ATE | |
| 64-19-7 | 200-580-7 | Acetic acid | 99,85-100 % |
| | 1 | 60 = >40 mg/l (vapours); oral: LD50 = 3530 mg/kg | |

Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)



Safety Data Sheet

according to UK REACH Regulation

Acetic Acid 99 % (Glacial Acid)

Revision date: 31.05.2023 Product code: 11998.xxxxx Page 3 of 13

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Remove affected person from the danger area and lay down. Remove casualty to fresh air and keep warm and at rest. To supervise the blood circulation. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Medical treatment necessary. Provide fresh air. As soon as possible glucocorticoid dose aerosol can breathe repeated deep inhalation. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. Call a physician immediately.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. 10-20min. Take off immediately all contaminated clothing and wash it before reuse. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Causes serious eye damage.!

After ingestion

Adverse human health effects and symptoms: Gastric perforation. Do not allow a neutralisation agent to be drunk. Rinse mouth immediately and drink plenty of water. (200-500 ml) Caution if victim vomits: Risk of aspiration! Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Call a physician immediately.

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

By swallowing danger of perforation of the esophagus and the stomach exists (strong corrosive effects). Causes serious eye damage.! Eyes: burning/stinging, lacrimation, eyelid spasm, conjunctivitis; corrosive effects: severe pain, opacity, inflammation of the cornea, delayed iritis, synechiae, etc. Skin: Corrosive effects: redness, swelling, blistering, necrotisation (blackish). Inhalation: tingling/stinging in the nose, irritation of the cough, etc.; pharyngeal/glottic/lung oedema or pneumonia. Ingestion: acutely life-threatening: severe burns on mucous membranes with severe pain; bloody vomiting, diarrhoea; danger of perforation of oesophagus/stomach, bleeding in large and small intestine; often shock, possibly reflex cardiac arrest; in slower courses, resorptive effects. Resorption: more or less pronounced acidosis, haemolysis/haemorrhagic diathesis -> kidney failure; secondary damage: strictures/stenoses in oesophagus/stomach, possibly liver necrosis.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Dry extinguishing powder. Atomized water. In case of major fire and large quantities: alcohol resistant foam. Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air. Heating causes rise in pressure with risk of bursting. In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2).

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.



Safety Data Sheet

according to UK REACH Regulation

Acetic Acid 99 % (Glacial Acid)

Revision date: 31.05.2023 Product code: 11998.xxxxx Page 4 of 13

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.Remove all sources of ignition. Beware of reignition.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

For non-emergency personnel

Ventilate affected area. Clear danger zone. Follow emergency plan. Consult an expert.

For emergency responders

Use personal protection equipment. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Stop leak if safe to do so. Use only antistatically equipped (spark-free) tools.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk. Do not allow to enter into surface water or drains. Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains. Collect, embank and pump out. Observe possible material restrictions (section 10).

For cleaning up

Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Suitable material for diluting or neutralizing: caustic soda, diluted. Clear contaminated areas thoroughly.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Process within closed systems. Use extractor hood (laboratory). If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear suitable protective clothing. (See section 8.) Avoid exposure. Always close containers tightly after the removal of product.

Advice on protection against fire and explosion

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only antistatically equipped (spark-free) tools. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air. Flammable vapours can accumulate in head space of closed systems. Fire extinguishing equipment shall be provided.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Take off immediately all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Street clothing should be stored separately from work clothing. Protect skin by using skin protective cream. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Always close containers tightly after the removal of product. Ensure cleanliness and dryness in the workplace.

7.2. Conditions for safe storage, including any incompatibilities



Safety Data Sheet

according to UK REACH Regulation

Acetic Acid 99 % (Glacial Acid)

Revision date: 31.05.2023 Product code: 11998.xxxxx Page 5 of 13

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up.Keep/Store only in original container. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Suitable material for Container: polyethylene. Unsuitable materials for Container: Aluminium. Zinc. (Glass. < 17°C)

Make sure spills can be contained (e.g. sump pallets or kerbed areas).

Hints on joint storage

Do not store together with: food and feed. pharmaceuticals. Infectious substances. Radioactive substances. Explosive substances. Oxidizing substances. Oxidizing liquids. Organic peroxides. Self-reactive substances and mixtures. Pyrophoric solids. Substances which in contact with water form flammable gases. Ammonium nitrate and preparations containing ammonium nitrate. Oxidizing substances.

Further information on storage conditions

Store small packages in a suitable, robust cabinet. Protect against: UV-radiation/sunlight. heat. Cold Recommended storage temperature: 15-25 °C.

7.3. Specific end use(s)

Use as laboratory reagent. The product is intended for research, analysis and scientific education.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m³ | fibres/ml | Category | Origin |
|---------|-------------|-----|-------|-----------|---------------|--------|
| 64-19-7 | Acetic acid | 10 | 25 | | TWA (8 h) | WEL |
| | | 20 | 50 | | STEL (15 min) | WEL |

DNEL/DMEL values

| CAS No | Substance | | | | |
|---------------------|---------------|----------------|--------|----------|--|
| DNEL type | | Exposure route | Effect | Value | |
| 64-19-7 Acetic acid | | | | | |
| Worker DNEL, | long-term | inhalation | local | 25 mg/m³ | |
| Worker DNEL, | acute | inhalation | local | 25 mg/m³ | |
| Consumer DNE | EL, long-term | inhalation | local | 25 mg/m³ | |
| Consumer DNE | EL, acute | inhalation | local | 25 mg/m³ | |

PNEC values

| CAS No | Substance | | |
|---|---------------------------------|------------|--|
| Environmental | Environmental compartment Value | | |
| 64-19-7 | Acetic acid | | |
| Freshwater | | 3,058 mg/l | |
| Freshwater (intermittent releases) 30,58 mg/l | | | |
| Marine water 0,306 mg/l | | | |
| Freshwater sediment 11, | | | |
| Marine sedime | 1,136 mg/kg | | |
| Micro-organisn | 85 mg/l | | |
| Soil | | 0,47 mg/kg | |

8.2. Exposure controls



according to UK REACH Regulation

Acetic Acid 99 % (Glacial Acid)

Revision date: 31.05.2023 Product code: 11998.xxxxx Page 6 of 13













Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Process within closed systems. Use extractor hood (laboratory). If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation as well as local exhaustion at critical locations. Fire extinguishing equipment shall be provided. Provide washing facilities at the workplace, provide an eye shower or eyewash bottle and mark them. Use only antistatically equipped (spark-free) tools.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles. Tightly sealed safety glasses.and Face protection umbrella. EN 166. If eye-damaging vapours or aerosols may occur, eye protection is best ensured by wearing a full-face mask.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Pull-over gloves of rubber. EN ISO 374

Suitable material:

(penetration time (maximum wearing period): >= 8 h)

Butyl rubber. (0,5 mm)

Protective clothing should be selected, depending on concentration and quantity of the hazardous substance.

The chemical resistance of the products should be discussed with suppliers.

Check leak tightness/impermeability prior to use.

Skin protection

Use of protective clothing. Chemical protection clothing Wear anti-static footwear and clothing

Respiratory protection

In case of inadequate ventilation wear respiratory protection., Generation/formation of aerosols, exceeding exposure limit values

Suitable respiratory protective equipment: gas filtering equipment (EN 141). Typ: E, Identification color: yellow. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Thermal hazards

Wear fire resistant or flame retardant clothing.

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: stinging

Melting point/freezing point: 17 °C Boiling point or initial boiling point and 118 °C

boiling range:

Flammability: not applicable Lower explosion limits: 4 vol. %



according to UK REACH Regulation

Acetic Acid 99 % (Glacial Acid)

Revision date: 31.05.2023 Product code: 11998.xxxxx Page 7 of 13

Upper explosion limits: 19,9 vol. % Flash point: 39 °C Auto-ignition temperature: 463 °C Decomposition temperature: not determined pH-Value (at 20 °C): 0-1 Viscosity / kinematic: 1,17 mm²/s

(at 20 °C)

Water solubility: 602,9 g/L

(at 20 °C)

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: -0,17
Vapour pressure: 15 hPa

(at 20 °C)

Vapour pressure: No information available.

(at 50 °C)

Density (at 20 °C): 1,05 g/cm³
Bulk density: No information available.
Relative vapour density: 1,02

(at 20 °C)

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

In vaporous/gaseous state: formation of explosive air/gas mixtures possible.

Sustaining combustion: Sustaining combustion

Self-ignition temperature

Solid: No information available.
Gas: No information available.

Oxidizing properties

none

Other safety characteristics

Evaporation rate: not determined Solvent separation test: No information available. Solvent content: No information available. Solid content: No information available. No information available. Sublimation point: Softening point: No information available. Pour point: No information available. Viscosity / dynamic: 1,22 mPa·s

(at 20 °C)

Flow time: No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Possibility of hazardous reactions. Flammable.

10.2. Chemical stability

Stable under normal storage and handling conditions.

10.3. Possibility of hazardous reactions

Base, Peroxides, Oxidizing agent. Chrom(VI)-oxide permanganates, e.g. potassium permanganate Performic acid, perchloric acid Phosphorus trichloride. Acetaldehyde.



Safety Data Sheet

according to UK REACH Regulation

Acetic Acid 99 % (Glacial Acid)

Revision date: 31.05.2023 Product code: 11998.xxxxx Page 8 of 13

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. heat. Cold

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong. Alcohols. alkali hydroxide Nitric acid. Ammonium nitrate. Brompentafluoride. Chlorosulfonic acid. Chromosulphuric acid. Diaminoethane. Ethylene glycol acetic Anhydride.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

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

| CAS No | Chemical name | Chemical name | | | | | | | |
|---------|-------------------------|---------------|----------|---------|--------|--------|--|--|--|
| | Exposure route | Dose | | Species | Source | Method | | | |
| 64-19-7 | Acetic acid | Acetic acid | | | | | | | |
| | oral | LD50 mg/kg | 3530 | Rat | GESTIS | | | | |
| | inhalation (4 h) vapour | LC50 | >40 mg/l | Rat | | | | | |

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

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



Safety Data Sheet

according to UK REACH Regulation

Acetic Acid 99 % (Glacial Acid)

Revision date: 31.05.2023 Product code: 11998.xxxxx Page 9 of 13

| CAS No | Chemical name | Chemical name | | | | | | | |
|---------|--------------------------|---------------|------|-----------|----------------------|--------------|--------|--|--|
| | Aquatic toxicity | Dose | | [h] [d] | Species | Source | Method | | |
| 64-19-7 | Acetic acid | | | | | | | | |
| | Acute fish toxicity | LC50 mg/l | >300 | 96 h | Oncorhynchus mykiss | ECHA Dossier | | | |
| | Acute algae toxicity | ErC50 mg/l | >300 | | Skeletonema costatum | ECHA Dossier | | | |
| | Acute crustacea toxicity | EC50 mg/l | >300 | 48 h | Daphnia magna | ECHA Dossier | | | |

12.2. Persistence and degradability

Product is biodegradable.

| CAS No | Chemical name | | | | | | |
|---------|---|-------------|---|----------------|--|--|--|
| | Method | Value | d | Source | | | |
| | Evaluation | | | | | | |
| 64-19-7 | Acetic acid | Acetic acid | | | | | |
| | Other guideline | 95% | 5 | suppliers SDS. | | | |
| | Easily biodegradable (concerning to the criteria of the OECD) | | | | | | |

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|---------|---------------|---------|
| 64-19-7 | Acetic acid | -0,17 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|---------|---------------|------|---------|--------|
| 64-19-7 | Acetic acid | 3,16 | | |

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Contents / container can be disposed of in accordance with national regulations. Product is acid. The product needs to apply neutralizing agents before draining to wastewater treatment plants. Consult the local waste disposal expert about waste disposal. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:



Safety Data Sheet

according to UK REACH Regulation

Acetic Acid 99 % (Glacial Acid)

Revision date: 31.05.2023 Product code: 11998.xxxxx Page 10 of 13

List of Wastes Code - residues/unused products

060106 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the manufacture,

formulation, supply and use (MFSU) of acids; other acids; hazardous waste

List of Wastes Code - used product

060106 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the manufacture,

formulation, supply and use (MFSU) of acids; other acids; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by

hazardous substances; hazardous waste

Contaminated packaging

Wash with plenty of water. Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 2789

14.2. UN proper shipping name: ACETIC ACID, GLACIAL

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8+3



Classification code: CF1
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 83
Tunnel restriction code: D/E
Other applicable information (land transport)

Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 2789

14.2. UN proper shipping name: ACETIC ACID, GLACIAL

 14.3. Transport hazard class(es):
 8

 14.4. Packing group:
 II

 Hazard label:
 8+3



Special Provisions:

Limited quantity:

Excepted quantity:

EMS:

F-E, S-C

Segregation group:

1 L

E2

F-E, S-C

1 - acids

Other applicable information (marine transport) Excepted quantity: E2

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 2789



according to UK REACH Regulation

Acetic Acid 99 % (Glacial Acid)

Revision date: 31.05.2023 Product code: 11998.xxxxx Page 11 of 13

14.2. UN proper shipping name: ACETIC ACID, GLACIAL

 14.3. Transport hazard class(es):
 8

 14.4. Packing group:
 II

 Hazard label:
 8+3



Limited quantity Passenger: 0.5 L
Passenger LQ: Y840
Excepted quantity: E2

IATA-packing instructions - Passenger:851IATA-max. quantity - Passenger:1 LIATA-packing instructions - Cargo:855IATA-max. quantity - Cargo:30 L

Other applicable information (air transport)

Excepted quantity: E2 Passenger-LQ: Y840

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Combustible liquid. strongly corrosive. Not restricted

14.7. Maritime transport in bulk according to IMO instruments

Not restricted

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

2010/75/EU (VOC): 100 % (1050 g/l) 2004/42/EC (VOC): 100 % (1050 g/l)

Information according to 2012/18/EU P5c FLAMMABLE LIQUIDS

(SEVESO III):

Additional information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out: Acetic acid

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,3,4,7,9,11,12,14,15,16.

Rev. 1,0; 01.12.2012 Initial release



Safety Data Sheet

according to UK REACH Regulation

Acetic Acid 99 % (Glacial Acid)

Revision date: 31.05.2023 Product code: 11998.xxxxx Page 12 of 13

Rev. 1,1; 04.08.2021, Revision 1-16.

Rev. 2,0; 31.05.2023; general adjustment(s) revision of the classification

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations

Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect concentration

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules MFAG: Medical First Aid Guide

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

Key literature references and sources for data

https://gestis.dguv.de

https://echa.europa.eu/de/information-on-chemicals/registered-substances



Safety Data Sheet

according to UK REACH Regulation

Acetic Acid 99 % (Glacial Acid)

Revision date: 31.05.2023 Product code: 11998.xxxxx Page 13 of 13

Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.