

SAFETY DATA SHEET

ACETIC ACID 25%

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Compilation date: 12/11/2021

Revision No: 1

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

1.1. Product identifier

Product name: ACETIC ACID 25%

CAS number: 64-19-7

EINECS number: 200-580-7

Index number: 607-002-00-6

Product code: RRSP513

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

Use of substance / mixture: Manufacture of substances. Laboratory chemicals.

1.3. Details of the supplier of the safety data sheet

Company name: ZOIC PalaeoTech

Orchard House

Longburton

Sherborne

DT9 5PH

Tel: 01963 210308

Email: info@zoicpalaeotech.co.uk

1.4. Emergency telephone number

Emergency tel: 999

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Skin Corr. 1A: H314; Eye Irrit. 2: H319

Most important adverse effects: Causes severe skin burns and eye damage. Causes serious eye irritation.

2.2. Label elements

Label elements under CLP:

Hazard statements: H314: Causes severe skin burns and eye damage.

H319: Causes serious eye irritation.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion

GHS07: Exclamation mark

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Precautionary statements: P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338: 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.
P264: Wash hands thoroughly after handling.
P405: Store locked up.
P321: Specific treatment (see advice on this label).
P501: Dispose of contents/container to a licensed disposal company.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: ACETIC ACID 25%

CAS number: 64-19-7

EINECS number: 200-580-7

Contains: * Acetic acid 10-30%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Wash out mouth with water. Consult a doctor.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

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

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation

Ingestion: Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach

Inhalation: Harmful if inhaled.

Delayed / immediate effects: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning

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sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Ingestion or inhalation of concentrated acetic acid causes damage to tissues of the respiratory and digestive tracts. Symptoms include: hematemesis, bloody diarrhea, edema and/or perforation of the esophagus and pylorus, pancreatitis, hematuria, anuria, uremia, albuminuria, hemolysis, convulsions, bronchitis, pulmonary edema, pneumonia, cardiovascular collapse, shock, and death. Direct contact or exposure to high concentrations of vapor with skin or eyes can cause: erythema, blisters, tissue destruction with slow healing, skin blackening, hyperkeratosis, fissures, corneal erosion, opacification, iritis, conjunctivitis, and possible blindness To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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

Immediate / special treatment: No data available.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Water spray. Carbon dioxide. Alcohol resistant foam. Dry chemical powder.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Carbon oxides.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid breathing vapours, mist or gas. Eliminate all sources of ignition. Ensure adequate ventilation. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Use PPE. Remove all sources of ignition.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13).

6.4. Reference to other sections

Reference to other sections: Refer to section 13 of SDS.

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Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid the formation or spread of dust in the air. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Store in correctly banded mild steel tanks, or plastic drums/IBC's. Solution will solidify at low temperatures; heated storage may be needed. Moisture sensitive.

7.3. Specific end use(s)

Specific end use(s): No other specific uses stipulated other than the uses mentioned in section 1.2.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	10 ppm. 25 mg/m3	-	-	-

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Handle in accordance with good industrial hygiene and safety practise. Wash hands before breaks and at the end of the workday.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Butyl gloves. Breakthrough time of the glove material > 8 hours. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with application laws and good laboratory practises. Wash and dry hands.

Eye protection: Tightly fitting safety goggles. Face-shield. Use equipment for eye protection tested and approved under appropriate government standards.

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Skin protection: Complete suit protecting against chemicals. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Environmental: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Pungent

Boiling point/range °C: 117-118

Melting point/range °C: 16.2

Flammability limits %: lower: 4

upper: 19.9

Part.coeff. n-octanol/water: log Pow: -0.17

Autoflammability °C: 485

Vapour pressure: 73.3 hPa at 50C

Relative density: 1.049g/cm³ at 25C

pH: 2.4 at 60.05g/l

9.2. Other information

Other information: Surface tension 28.8 mN/m at 10.0C

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No data available.

10.2. Chemical stability

Chemical stability: Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

10.4. Conditions to avoid

Conditions to avoid: Heat. Flames. Sparks.

10.5. Incompatible materials

Materials to avoid: Oxidising agents. Soluble Carbonates and phosphates Metals. Hydroxides, Peroxides. Permanganates. e.g. Potassium permanganate, Amines, Alcohols, Nitric Acid

10.6. Hazardous decomposition products

Haz. decomp. products: Other decomposition products - no data available. In the event of fire: see section 5

Section 11: Toxicological information

11.1. Information on toxicological effects

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Toxicity values:

Route	Species	Test	Value	Units
ORL	RAT	LD50	3310	mg/kg
VAPOURS	MUS	LC50	5620	ppmV
VAPOURS	RAT	LC50	11.4	mg/l
DERMAL	RBT	LD50	1112	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data

Symptoms / routes of exposure

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation

Ingestion: Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach

Inhalation: Harmful if inhaled.

Delayed / immediate effects: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Ingestion or inhalation of concentrated acetic acid causes damage to tissues of the respiratory and digestive tracts. Symptoms include: hematemesis, bloody diarrhea, edema and/or perforation of the esophagus and pylorus, pancreatitis, hematuria, anuria, uremia, albuminuria, hemolysis, convulsions, bronchitis, pulmonary edema, pneumonia, cardiovascular collapse, shock, and death. Direct contact or exposure to high concentrations of vapor with skin or eyes can cause: erythema, blisters, tissue destruction with slow healing, skin blackening, hyperkeratosis, fissures, corneal erosion, opacification, iritis, conjunctivitis, and possible blindness To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological information

12.1. Toxicity

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Ecotoxicity values:

Species	Test	Value	Units
Daphnia magna	48H EC50	>300.82	mg/l
Oncorhynchus mykiss	96H LC50	>1000	mg/l

12.2. Persistence and degradability

Persistence and degradability: Readily biodegradable. Exposure time: 30 d Expected to be biodegradable. Biochemical Oxygen: 880 mg/g.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Dispose of as unused product.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN2790

14.2. UN proper shipping name

Shipping name: ACETIC ACID, SOLUTION

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: III

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14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Tunnel code: E

Transport category: 3

Section 15: Regulatory information

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

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

15.2. Chemical Safety Assessment

Chemical safety assessment: For this product a chemical safety assessment was not carried out.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: H314: Causes severe skin burns and eye damage.

H319: Causes serious eye irritation.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.