

SAFETY DATA SHEET ACETIC ACID 80%

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name ACETIC ACID 80%
CAS-No. 64-19-7
EU Index No. 607-002-00-6
EC No. 200-580-7

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

Identified uses Industrial Applications

1.3. Details of the supplier of the safety data sheet

Supplier Central Chemical Supplies Ltd
44 Hall Road
Donaghcloney
Co Armagh
Northern Ireland
BT66 7LJ
02838 881936
02838 882335
info@ccsni.co.uk

1.4. Emergency telephone number

07872 501842

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards Flam. Liq. 3 - H226
Human health Skin Corr. 1B - H314
Environment Not classified.

Classification (67/548/EEC)

C;R34.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements

EC No. 200-580-7

Label In Accordance With (EC) No. 1272/2008



Signal Word Danger

Hazard Statements

H226 Flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.

Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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| | |
|--|--|
| 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. Immediately call a POISON CENTER or doctor/physician. |
| P310 | |
| Supplementary Precautionary Statements | |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P260 | Do not breathe vapour/spray. |
| P264 | Wash contaminated skin thoroughly after handling. |
| P321 | Specific treatment (see medical advice on this label). |
| P370+378 | In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction. |
| P301+330+331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P303+361+353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304+340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P363 | Wash contaminated clothing before reuse. |
| P403+235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| | P501 Dispose to licensed waste disposal site in accordance with local Waste Disposal Authority. |

2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

| | |
|--------------|-----------------|
| Product name | ACETIC ACID 80% |
| CAS-No. | 64-19-7 |
| EU Index No. | 607-002-00-6 |
| EC No. | 200-580-7 |

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Get medical attention if any discomfort continues. Consult a physician for specific advice. Remove affected person from source of contamination.

Inhalation

Remove victim immediately from source of exposure. Get medical attention. If breathing stops, provide artificial respiration. For breathing difficulties oxygen may be necessary.

Ingestion

DO NOT INDUCE VOMITING! Never give liquid to an unconscious person. Get medical attention immediately! Immediately rinse mouth and drink plenty of water (200-300 ml).

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention immediately!

Eye contact

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

Inhalation.

No specific symptoms noted.

Ingestion

May cause chemical burns in mouth and throat.

Skin contact

Burning pain and severe corrosive skin damage.

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Eye contact

May cause blurred vision and serious eye damage. Extreme irritation of eyes and mucous membranes, including burning and tearing.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials. Extinguish with foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Specific hazards

In case of fire, toxic gases may be formed. Carbon monoxide (CO).

5.3. Advice for firefighters

Special Fire Fighting Procedures

Keep run-off water out of sewers and water sources. Dike for water control. Dike and collect extinguishing water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

In case of inadequate ventilation, use respiratory protection. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body. Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

For waste disposal, see section 13. Absorb in vermiculite, dry sand or earth and place into containers. Flush away small spillages with plenty of water. Remove sources of ignition. Ventilate well.

6.4. Reference to other sections

For personal protection, see section 8. See section 11 for additional information on health hazards. Collect and dispose of spillage as indicated in section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Eye wash facilities and emergency shower must be available when handling this product. Avoid contact with skin and eyes. Well-ventilated area. Take precautionary measures against static discharges. Avoid spilling, skin and eye contact.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Protect from freezing and direct sunlight.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments

No exposure limits noted for ingredient(s).

8.2. Exposure controls

Protective equipment



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Engineering measures

Well-ventilated area.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided. Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapours of organic compounds (boiling point >65 C e.g EN 14387 Type A)

Hand protection

The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection

Goggles/face shield are recommended.

Other Protection

Provide eyewash station and safety shower.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash hands after contact. Wash hands after handling.

Skin protection

Wear apron or protective clothing in case of contact. Hard hat, chemical resistant boots, chemical resistant apron, full chemical suit with hood, chemical protective suit consisting of a jacket and trousers. The jacket should be buttoned up to the neck, sleeves sealed at the gloves, and trouser legs worn outside the boots. These precautions are required to prevent the clothing from accidentally trapping product against the skin.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|---|-------------------|
| Appearance | Liquid |
| Colour | Colourless. |
| Odour | Pungent. |
| Initial boiling point and boiling range | 103 |
| Melting point (°C) | -15 |
| Vapour density (air=1) | 2.1 |
| Flash point | 61 OC (Open cup). |
| Flammability Limit - Lower(%) | Not determined. |
| Flammability Limit - Upper(%) | Not determined. |

9.2. Other information

Not determined.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

Avoid exposing to heat and contact with strong oxidising substances. Avoid contact with strong oxidisers. Avoid contact with acids. Strong alkalis.

10.5. Incompatible materials

Materials To Avoid

Metals Strong oxidising substances. Strong reducing agents. Strong alkalis. Alcohol

10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO₂).

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxic Dose 1 - LD 50

1060 mg/kg (oral rat)

Other Health Effects

Acetic Acid: Humans unacclimatised to acetic acid vapours experience extreme eye and nasal irritation at concentrations above 25ppm. Air concentrations of 50ppm are considered intolerable, causing intense lacrymation (eye weeping), nose and throat irritation. Repeated exposures to high concentrations in man can cause eye conjunctival lesions, blackening of the hands, hyperkeratosis (thickening) of the skin, teeth erosion, congestion and oedema of the pharynx, bronchial constriction and respiratory tract irritation. This substance has no evidence of carcinogenic properties.

Acute toxicity:

Acute Toxicity (Dermal LD50)

3310 mg/kg Rabbit

Inhalation

Severely corrosive to the respiratory system. Causes severe respiratory tract burns, sore throat, coughing and shortness of breath.

Ingestion

May cause discomfort if swallowed. May cause chemical burns in mouth, oesophagus and stomach.

Skin contact

Causes severe burns.

Eye contact

Risk of serious damage to eyes. Causes severe burns. Spray and vapour in the eyes may cause irritation and smarting.

Target Organs

Respiratory system, lungs Eyes Teeth

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product is not expected to be hazardous to the environment.

12.1. Toxicity

LC 50, 96 Hrs, Fish mg/l 75

Acute Toxicity - Aquatic Invertebrates

Not available.

Acute Toxicity - Aquatic Plants

Not available.

Acute Toxicity - Microorganisms

Not available.

12.2. Persistence and degradability

Degradability

The product is easily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

The product is not bioaccumulating.

12.4. Mobility in soil

Mobility:

No information available.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

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12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Empty containers retain product residue and can be hazardous. Do not remove warning labels from containers. Do not pressurise, cut, weld, braze, solder, drill, grind or exposure containers to heat or sources of ignition.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

General No other information noted.

14.1. UN number

| | |
|----------------------|------|
| UN No. (ADR/RID/ADN) | 2789 |
| UN No. (IMDG) | 2789 |
| UN No. (ICAO) | 2789 |

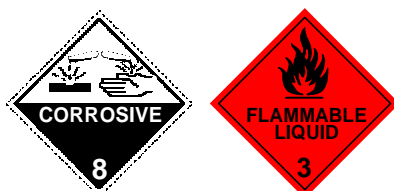
14.2. UN proper shipping name

Proper Shipping Name ACETIC ACID SOLUTION

14.3. Transport hazard class(es)

| | |
|----------------------|--------------------------------|
| ADR/RID/ADN Class | 8 |
| ADR/RID/ADN Class | Class 8: Corrosive substances. |
| ADR Label No. | 8 & 3 |
| IMDG Class | 8 |
| ICAO Class/Division | 8 |
| ICAO Subsidiary risk | 3 |

Transport Labels



14.4. Packing group

| | |
|---------------------------|----|
| ADR/RID/ADN Packing group | II |
| IMDG Packing group | II |
| ICAO Packing group | II |

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

| | |
|-----------------------|----------|
| EMS | F-E, S-C |
| Emergency Action Code | • 2P |
| Hazard No. (ADR) | 83 |

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Tunnel Restriction Code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

Dangerous Substance Directive 67/548/EEC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

Workplace Exposure Limits 2005 (EH40)

Health and Safety at Work Act (As Amended) 1974

Control of Substances Hazardous to Health Regulations 2002 (as amended)

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

| | |
|---------------------------|--|
| Issued By | Quality Control |
| Revision Date | 25/07/2012 |
| Revision | 3 |
| Supersedes date | 25/07/2012 |
| Safety Data Sheet Status | Approved. |
| Risk Phrases In Full | |
| R34 | Causes burns. |
| Hazard Statements In Full | |
| H314 | Causes severe skin burns and eye damage. |
| H226 | Flammable liquid and vapour. |

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.