



SAFETY DATA SHEET

ACETIC ACID GLACIAL

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY:

PRODUCT NAME: ACETIC ACID GLACIAL
CHEMICAL NAME 2: ETHANOIC ACID
PART No.: RM005
SUPPLIER: J M Loveridge plc
Southbrook Road, Southampton
Hampshire
SO15 1BH
Tel: 023 8022 2008
Fax: 023 8022 2117

2. COMPOSITION/INFORMATION ON INGREDIENTS:

EU INDEX No.: 607-002-00-6
EEC (EINECS) No. 200-580-7
CAS No.: 64-19-7

3. HAZARDS IDENTIFICATION:

Causes severe burns. Flammable.

4. FIRST AID MEASURES:

GENERAL: IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION

INHALATION: Move affected person to fresh air. If recovery not rapid, seek medical attention. If breathing stops, provide artificial respiration. Keep affected person warm and at rest.

INGESTION: Only when conscious, rinse mouth with plenty of water and give plenty of water to drink - (approx 500ml). DO NOT INDUCE VOMITING. In case of spontaneous vomiting, be sure that vomit can freely drain because of danger of suffocation. Keep patient at rest and obtain medical attention.

SKIN: Remove affected person from source of contamination. Remove contaminated clothing. Wash affected area with plenty of soap and water. Obtain medical attention. Launder clothing before re-use.

EYES: Rinse immediately with plenty of water for at least 5 minutes while lifting the eye lids. Seek medical attention. Continue to rinse.

5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA:	Water spray, fog or mist, carbon dioxide (CO ₂), alcohol resistant foam, dry chemicals, sand, dolomite etc.
SPECIAL FIRE FIGHTING PROCEDURES:	Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Take measures to retain water used for extinguishing. Do not release contaminated water into drains, soil and surface water. Dispose of contaminated water and soil according to local regulations.
UNUSUAL FIRE & EXPLOSION HAZARDS:	May explode in a fire. May develop highly toxic or corrosive fumes if heated. Vapour may travel considerable distance to source of ignition and flash back.
PROTECTIVE MEASURES IN FIRE:	Fire fighters should wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTION IN SPILL:	Avoid direct contact with skin, eyes and clothing. Do not breathe vapour or fumes. OTHER PRECAUTIONS - Avoid ignition sources. Ventilate area to dispel residual vapour or fumes.
PRECAUTIONS TO PROTECT ENVIRONMENT:	Prevent contamination of soil, drains and surface water.
SPILL CLEANUP METHODS:	Neutralise spillage with alkaline material (sodium bicarbonate or soda-ash). Take-up spillage with absorbent, inert material and place in a suitable and closable labelled container for recovery or disposal. Wash the area clean with water and detergent, observing environmental requirements. Absorb small quantities with paper towels or other inert material and allow to evaporate in safe place (fume hood/cupboard).

7. HANDLING AND STORAGE:

USAGE PRECAUTIONS:	HANDLING - Product should be used in accordance with good industrial principles for handling and storing of hazardous chemicals. Ensure good ventilation and local exhaust extraction in work place. Avoid spillage and contact with eyes. Avoid vapour formation and ignition sources.
STORAGE PRECAUTIONS:	Flammable/combustible - Keep away from oxidising agents, heat and flames. Avoid direct sunlight. Store in a cool, dry, well ventilated place, in securely closed original container. Store above material's freezing point.
STORAGE CRITERIA:	Corrosive storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

INGREDIENT NAME:	CAS No.:	STD	LT EXP 8 Hrs	ST EXP 15 Min
ACETIC ACID GLACIAL	64-19-7	OES	10 ppm	15 ppm

INGREDIENT COMMENTS: Refer to the current edition of HSE Guidance Note EH 40/200* for occupational exposure limits;

PROCESS CONDITIONS: Use engineering controls to maintain airborne concentration below OEL.

VENTILATION:	Work in a fume cupboard or use local exhaust ventilation. Respiratory protection required in insufficiently ventilated working areas.
RESPIRATORS:	For short periods of work, a suitable RPE fitted with a combination charcoal or organic vapour cartridge is recommended.
PROTECTIVE GLOVES:	Use impermeable gloves made of butyl rubber or polyethylene.
EYE PROTECTION:	Approved chemical safety goggles or face protection. Contact lenses should not be worn when working with this chemical!
OTHER PROTECTION:	Wear protective clothing and closed footwear. Wear personal protective equipment appropriate to the quantity of material handled. Engineering controls should be to explosion/flameproof standard.
HYGIENIC WORK PRACTICES:	SKIN PROTECTION - apply barrier cream to hands and exposed skin. Promptly remove contaminated clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:	Clear colourless liquid.		
ODOUR/TASTE:	Pungent. Strong. Vinegar.		
BOILING POINT (°C, interval):	~ 117	Pressure:	
MELT/FREEZ. POINT (°C, interval):	~ 16		
DENSITY/SPECIFIC GRAVITY (g/ml):	~ 1.05	Temperature (°C):	20
VAPOUR DENSITY (air=1):	2.7		
VAPOUR PRESSURE:	1.52 kPa	Temperature (°C):	20
EVAPORATION RATE:	0.97	Reference:	BuAc=1
SOLUBILITY DESCRIPTION:	Very soluble in water. Very soluble in: Acetone. Benzene. Ethanol. Ether.		
ODOUR THRESHOLD, LOWER:	1.00		
FLASH POINT (°C):	40	Method:	CC (Closed cup).
AUTO IGNITION TEMP. (°C):	426		
FLAMMABILITY LIMIT - LOWER (%):	5.40		
FLAMMABILITY LIMIT - UPPER (%):	16		

10. STABILITY AND REACTIVITY:

STABILITY:	Stable under normal conditions of use.
CONDITIONS TO AVOID:	Avoid contact with strong oxidising agents or strong reducing agents. Avoid heat, flames and other sources of ignition.
MATERIALS TO AVOID:	Alkali hydroxides. Phosphorus trichloride. Acids, oxidizing. Hydrogen peroxide.
HAZARDOUS DECOMP. PRODUCTS:	Thermal decomposition or burning may release oxides of carbon and other hazardous gases or vapours.

11. TOXICOLOGICAL INFORMATION:

Toxicological data	Acute toxicity. LD50. Skin. Rabbit. 1060 mg/kg
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TOXIC DOSE - LD 50:	3310 mg/kg (oral rat)
HEALTH HAZARDS, GENERAL:	Vapour will irritate the membranes of nose, throat, lungs and eyes. Liquid or vapour may cause severe eye damage.
SKIN:	Corrosive to skin.
EYES:	Corrosive to eyes.
ROUTE OF ENTRY:	Inhalation.
TARGET ORGANS:	Eyes, respiratory system and skin.
MEDICAL SYMPTOMS:	Inflammation of nasal mucous membrane, upper respiratory tract irritation. General respiratory distress, unproductive cough. Eye irritation, burning and lachrymation.

12. ECOLOGICAL INFORMATION:

Ecotoxicological data	LC50 24 hours fish (fathead minnow) - 106 mg/l LC50 24 hours fish (mosquito fish) - 215 mg/l
LC 50, 96 HRS, FISH mg/l:	75 mg/l (bluegills)
ECOLOGICAL INFORMATION:	Avoid release to the environment. Prevent contamination of soil, drains or surface water, use appropriate containment method to avoid environmental contamination.
MOBILITY:	Water soluble, will partition to aqueous phase. Lost within short period through evaporation and dissolution.
BIO ACCUMULATION:	Not expected to bio-accumulate.
DEGRADABILITY:	Readily biodegradable. Poses a significant risk of oxygen depletion in aquatic systems.

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHODS:	This material and/or its container must be disposed of as hazardous waste according to Special Waste Regulations 1996 or according to local regulations, in compliance with Duty of Care Regulations and Special Waste Regulations.
WASTE CLASS:	WASTE CODE:0705** HAZARDOUS PROPERTY: H8, H3

14. TRANSPORT INFORMATION:

UN No. ROAD:	2789
UK ROAD PACK GR.:	II
ADR CLASS No.:	8
ADR CLASS:	Class 8: Corrosive substances. - Subsidiary class 3: Flammable
ADR ITEM No.:	32°(b)2
HAZARD No. (ADR):	83 Corrosive or slightly corrosive substance, flammable (flash-point between 23°C and

61°C, inclusive).

ADR MARGINAL: 2801

ADR LABEL No.: 8 + 03

HAZCHEM CODE: 2P

PROPER SHIPPING NAME I: ACETIC ACID GLACIAL

ROAD TRANSPORT NOTES: Flash point: 40°C

UN No. SEA: UN 2789

IMDG CLASS: 8

IMDG PAGE No.: 8100

IMDG PACK GR.: II

EmS No.: 8-04

MFAG TABLE No.: 700

MARINE POLLUTANT: No.

SEA TRANSPORT NOTES: Subsidiary risk label required - class 3

UN No., AIR: UN-ID 2789

ICAO CLASS: 8

AIR SUB CLASS: 3

AIR PACK GR.: II

15. REGULATORY INFORMATION:

LABEL FOR SUPPLY:



RISK PHRASES: R-10 Flammable.
R-35 Causes severe burns.

SAFETY PHRASES: S-23 Do not breathe gas/fumes/vapour/spray.
S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S-45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

UK REGULATORY REFERENCES: Classification, Packaging and Labelling Regulations 1984. Chemicals (Hazard Information & Packaging) Regulations 1993.

16. OTHER INFORMATION:

INFORMATION SOURCES: This product has been classified in accordance with CHIP3 regulations.

REVISION COMMENTS: Edition 01; Revised item(s):

ISSUED BY: MK

SDS No.: 003

DATE: 12/07/02

DISCLAIMER: The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this Data Sheet is to the best of JMLs knowledge correct at the time of publication. Customers should always satisfy themselves, that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulations. For any further information, please contact the supplier.