Camlab Limited – Material Safety Data Sheet

1. Identification

Product Code **CC/0011-EH**

Product Name **ACETIC ACID GLACIAL A.R.**

Molecular Formula **CH_3COOH =60.05**

CAS Number **64-19-7**

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2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Acetic acid	64-19-7	200-580-7	> 99.5%	C : R10,R35	WEL

3. Hazards Identification

Flammable. Causes severe burns.

4. First Aid Measures

Eyes: Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION URGENTLY.

Skin: Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. If discomfort persists OBTAIN MEDICAL ATTENTION.

Inhalation: Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

Ingestion: If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

5. Fire Fighting Measures

Hazards: Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. Vapour-air mixtures are explosive.

Extinguishing Media: Water spray, alcohol resistant foam, dry powder or carbon dioxide. Use water spray to keep fire exposed containers cool.

Unsuitable Media: Do not use water jet.

6. Accidental Release Measures

Personal Protection	Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so.
Enviromental	Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.
Major Spillage	Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water.
Minor Spillage	Contain and absorb on inert material. Neutralise spill with soda ash, lime, calcium carbonate or sodium bicarbonate. Wash to drain with copious amounts of water.

7. Storage & Handling

Handling Precautions	Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing. Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.
Storage Conditions	Well ventilated, cool, dry storage . Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use.

8.1 Workplace Exposure Limits

Component	CAS No	Workplace Exposure Limits				Maximum Exposure Limits			
		Long Term		Short Term		Long Term		Short Term	
		ppm	mg m–3	ppm	mg m–3	ppm	mg m–3	ppm	mg m–3
Acetic acid	64-19-7	10.00	25.00	15.00	37.00	–	–	–	–

8.2 Personal Protection

Respiratory	Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus.
Hands	Use PVC gauntlets.
Eyes	Use chemical full face shield.
Skin	Wear PVC oversuit.

9. Physical & Chemical Properties

Appearance	Colourless liquid or frozen mass.
Odour	Sharp vinegary odour and burning taste.
pH	Not available
Boiling point	117.9 °C
Melting point	16.7 °C
Flash point	39.0 °C(Closed cup)
Upper Flammable Limit	16.0 %
Lower Flammable Limit	5.4 %
Auto Ignition	465.0 °C
Explosive properties	Moderate/severe in confined spaces.
Oxidising Properties	No.
Vapour Presure	15.7 mbar @ 20 C
Relative Density	1.0491
Water Solubility	Completely miscible in water.

10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Hot surfaces, naked flames or other sources of ignition.
Materials to Avoid	Hydrogen peroxide, chromium trioxide and potassium permanganate. Potassium t-butoxide. Alkalis.

10. Stability & Reactivity (continued)

Hazardous Decomposition Products	None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide.

11. Toxicological Information

Eyes	The vapour is irritating to the eyes. The liquid and solutions will cause severe burns. Damage can range from severe irritation and corneal scarring to permanent blindness.
Skin	The liquid and solutions will cause severe burns. Repeated exposure may cause dermatitis.
LD50 Skin	Rabbit 1060 mg/kg
Ingest	Causes severe corrosion of the mouth, throat and gastro-intestinal tract.
LD50 Ingest	Oral Rat 3310 mg/Kg
Inhalation	Exposure to vapour concentrations above the occupational exposure limits will produce severe irritation of the eyes, nose, throat and respiratory tract. High concentrations of vapour may seriously damage the membranes lining the nose, throat and upper respiratory tract.
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.
Other Information	The irritant effect provides warning that control of exposure is needed. 10ppm is the threshold for irritation with severe irritation occurring above 25ppm.

12. Ecological

Readily biodegradable in both fresh and salt water. Bio-oxidation as a % of Theoretical O2 Demand (ThOD) - ThOD 1.07 gm/gm: Fresh water 5 days 76%, 10 days 82%, 20 days 96% : Salt water 5 days 66%, 10 days 88%, 20 days 100%. Slightly toxic to aquatic life ie.TLm96 10-100ppm, but unlikely to bioaccumulate.

13. Disposal Considerations

Disposal Methods	Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste. Never dispose of into water courses or sewerage systems due to high risk of explosion.
Contaminated Packaging	Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion.

14. Transport Information

Proper Shipping Name	Acetic Acid, Glacial
UN Number	2789
UN Classification	8 Corrosive
Subsidiary Risk	3 Flammable liquid
Flash Point	39.0 °C(Closed cup)
Packing Group	II
Transport Category	2
Marine pollutant	No
ADR Hazard ID	83

15. Regulatory Information

Labelling Classification	Corrosive, Flammable.
Label Symbols	C

15. Regulatory Information (continued)

Risk & safety Phrases	Flammable. Causes severe burns. Keep locked up and out of reach of children. Do not breath vapour. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label).
EEC Number	200-580-7

16. Other Information

Document Information	This document has been prepared in accordance with directive 88/379/EEC. The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. Revision Date: 20/02/06. Data reviewed and PDF file generated: 17/03/10.