

MATERIAL SAFETY DATA SHEET

Halmed Pty Ltd

HALMED ACETIC ACID 5%

1. IDENTIFICATION

PRODUCT NAME: Halmed Acetic Acid 5%
USE: Acidic solution for lowering pH
OTHER NAMES: N/A
PRODUCT CODE: HALACET5
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2. HAZARD IDENTIFICATION

UN NUMBER: Not applicable
HAZCHEM CODE: Not applicable
DANGEROUS GOODS CLASS: Not applicable
PACKAGING GROUP: Not applicable
SUBSIDIARY RISK: Not applicable
EMERGENCY PROCEDURE GUIDE: Not applicable
POISONS SCHEDULE: Not applicable

NOT HAZARDOUS SUBSTANCE ACCORDING TO WORKSAFE AUSTRALIA

3. COMPOSITION AND INFORMATION ON INGREDIENTS

CHEMICAL INGREDIENT	CAS No	PROPORTION
Acetic acid	64-19-7	<10%
Purified water	7732-18-5	>90%

4. FIRST AID MEASURES

First Aid

SWALLOWED	If swallowed, give large amounts of water to drink. Do not induce vomiting. Contact a doctor or Poisons Information Centre (Australia 13 11 26)
EYE	Hold eyelids open and flush eye with gently running water for at least 15 minutes. Seek medical attention promptly if irritation persists.
SKIN	Remove contaminated clothing and wash skin with water. If irritation persists contact medical advice.
INHALED	Remove patient to fresh air or well ventilated area. Apply artificial respiration or oxygen if breathing stops.

Advice to Doctor: Treat symptomatically.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING EQUIPMENT	Water fog/spray, carbon dioxide, dry chemical powder or foam.
HAZARDS FROM COMBUSTION PRODUCTS	May react with metals to form hydrogen gas.
PRECAUTIONS & EQUIPMENT FOR FIRE FIGHTERS	Fire-fighters should wear self-contained breathing apparatus as exposure to vapour or combustion products is likely.

6. ACCIDENTAL RELEASE MEASURES

Contain using sand or earth and use an absorbent (sawdust, vermiculite) where appropriate. Collect and seal in properly labelled containers for disposal. Wash area down with excess water. Waste material may be incinerated under controlled conditions where permitted. Refer to local Waste Management Authority Regulations for other approved methods.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	Keep containers tightly closed
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	Store below 25°C. Protect from direct sunlight. Ventilate area well.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMITS	There are no known Threshold Limit Values (TLV) for Acetic acid 3% but the following limits for glacial acetic acid could serve as a guide: Glacial acetic acid TWA 10ppm; 25mg/m³ STEL 15ppm/37mg/m³ TWA: time weighted average airborne concentration over an eight-hour day, for a five-day working week over an entire working life. STEL: Short term exposure limit-average airborne concentration per 15 minutes period.
ENGINEERING CONTROLS	Ensure adequate ventilation at all times. Keep cap tightly closed when not in use.
PERSONAL PROTECTION	Avoid contact with eyes and broken skin. If spillage or splashing are likely to occur during handling, wear safety goggles. Approved barrier creams may prove useful in preventing dermatitis when prolonged skin contact is unavoidable.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	A clear , colourless solution with a characteristic acetic acid (vinegar) odour
PH	1.0 to 3.0
WEIGHT PER ML	0.99 to 1.01g/mL @20°C
BOILING POINT (°C):	100°C
SOLUBILITY IN WATER:	Soluble
VAPOUR PRESSURE (KPA):	<1.5kPa @20°C
FLASH POINT (°C)	>150°C
UPPER EXPLOSION LIMIT	N/A
LOWER EXPLOSION LIMIT	N/A

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY	Stable under normal conditions of use and storage. Heat and sunlight can contribute to instability.
POSSIBILITY OF HAZARDOUS REACTION	Will not occur
CONDITIONS TO AVOID	Heat, sunlight
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon dioxide and carbon monoxide may form when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

INHALATION	Vapour may irritate mucous membranes and respiratory tract.
INGESTION	The product is acidic and may cause irritation to mucous membranes.
SKIN	May cause temporary stinging sensation. Not to be used in the ear.
EYE	Irritating to eyes, causing redness and stinging.

12. ECOLOGICAL INFORMATION

ECOTOXICITY	Is biodegradable in soil. May be slightly toxic to aquatic life.
PERSISTENCE AND DEGRADABILITY	When released into the air, will be moderately degraded photochemically and produce hydroxyl radicals. Expected half life is 10-30 days. The expected half-life in water is between 1-10 days.
BIOACCUMULATIVE POTENTIAL	Not available
MOBILITY IN SOIL	Not available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS	Rinse container in water.
SPECIAL DISPOSAL FOR LANDFILL OR INCINERATION	Waste material may be incinerated under controlled conditions where permitted. Refer to local Waste Management Authority Regulations for other approved methods.

14. TRANSPORT INFORMATION

UN NUMBER	Not applicable
TRANSPORT HAZARD CLASS	Not applicable
PACKING GROUP	Not applicable
UN PROPER SHIPPING NAME	Not applicable
SPECIAL PRECAUTIONS FOR USERS	Not applicable
ADDITIONAL INFORMATION	Not applicable
HAZCHEM OR EMERGENCY ACTION CODE	Not applicable

15. REGULATORY INFORMATION

POISONS SCHEDULE	Not scheduled
CLASSIFICATION	Not hazardous according to criteria of NOHSC Not Dangerous Good according to criteria of the Australian Dangerous Goods Code

16. OTHER INFORMATION

DATE DOCUMENT CREATED	8.8.2016
DATE OF REVISION	August 2019
VERSION NUMBER	1
CHANGES TO PREVIOUS VERSION	New document
DECLARATION	This information is presented in good faith and is based on current data considered to the best of our knowledge. Halmed does not assume responsibility for injury, damage or loss resulting from the use of the product.