

MATERIAL SAFETY DATA SHEET
ACETIC ACID 3% v/v
1. Identification of the Product and Company

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| Product Name: | ACETIC ACID 3% v/v |
| Product Code: | ACE01214F |
| Other Names: | None allocated |
| Use: | An acidic solution that decreases the pH of the surrounding environment. |
| Company Name & Contact Details | Drug Information Pharmacist ORION Laboratories Pty Ltd ABN 56 009 293 136 25-29 Delawney Street, Balcatta, Western Australia 6021 AUSTRALIA Telephone (all hours): +618 9441 7800 FREE PHONE: 1800 805 546 FREE FAX: 1800 004 110 EMAIL: customerservice@orion.net.au; WEBSITE: www.orion.net.au ORION® is a registered trademark of Orion Laboratories Pty Ltd |
| Other Information | All reasonable care has been taken to ensure information and advice contained in this data sheet is accurate at time of printing. However, Orion accepts no liability for any loss or damages suffered as a consequence of reliance on the information contained herein. |

2. Hazards Identification

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| Hazard Classification | This product is not hazardous or dangerous |
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3. Composition/Information on Ingredients

| Chemical Entity | CAS No: | Proportion |
|------------------------|----------------|-------------------|
| Acetic Acid (Glacial) | 64-19-7 | 3% v/v |
| Purified Water | 7732-18-5 | To 100% v/v |

4. First Aid Measures

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| Inhalation: | Remove patient to fresh air or ventilated environment (avoid becoming a casualty). If breathing stops, apply artificial respiration or oxygen. In the event of cardiac arrest, apply external cardiac massage. |
| Ingestion: | Do NOT induce vomiting. Give water to drink. Seek medical assistance. |
| Skin: | Remove contaminated clothing or drench with water. Wash area well with water. If irritation occurs, seek medical advice. |
| Eye: | Hold eyelids open and irrigate with gently running water for at least 15 minutes. Seek urgent medical treatment and transfer to hospital if necessary. |
| Advice to Doctor: | Treat symptomatically. |

5. Fire Fighting Measures

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| Extinguishing Media | Water fog (mist or fine water spray), foam, dry chemical or carbon dioxide. |
| 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. |
| Hazchem Code | None allocated |

6. Accidental Release Measure

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

Safe Handling Practices Keep containers tightly closed.

Storage Store below 25°C, away from direct sunlight. Ventilate area well.

Other Information Not dangerous for the purposes of transport and storage.

8. Exposure Controls; Personal Protection

Exposure Limits: There are no known Threshold Limit Values (TLV) for Acetic Acid 3% v/v, but the following limits for glacial acetic acid may be beneficial:

| | | |
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| Glacial Acetic Acid | 10ppm/25mg/m ³ | TWA |
| | 15ppm/37mg/m ³ | STEL |

TWA Time-weighted average airborne concentration per 8 hour working day per 5 day working week over an entire working life.

STEL Short term exposure limit - average airborne concentration per 15-minute period.

Engineering Controls Ensure adequate ventilation at all times. Keep cap tightly closed when not in use.

Personal Protection Avoid eye contact. If spillage or splashing is likely to occur during handling, wear safety spectacles. Approved barrier creams may prove useful in preventing dermatitis when prolonged skin contact is unavoidable.

9. Physical and Chemical Properties

Appearance: A clear, colourless liquid which has an odour characteristic of acetic acid.

pH: 1.0 – 3.0

Vapour Pressure: < 1.5kPa @ 20°C

Vapour Density: Not known

Boiling Point: Approx. 100°C @ 20°C

Flashpoint: > 150°C

Solubility: Miscible

Specific Gravity or Density: 0.99 – 1.01 g/mL @ 20°C

10. Chemical Stability and Reactivity Information

Conditions Contributing to Instability Stable under normal conditions of use and storage. Heat and sunlight can contribute to instability.

Hazardous Decomposition Products Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerisation: Will not occur

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11. Toxicological Information

Inhalation: Vapour may irritate mucous membranes and respiratory tract.
Ingestion: Acetic Acid 3% v/v is acidic and may cause irritation to mucous membranes.
Skin: May cause temporary stinging sensations. Not to be used in the ear.
Eye: Irritating to the eye, causing redness and stinging.

12. Ecological Information

Mobility: No data.
Persistence and Degradability: When released into the air, Acetic Acid 3% will be moderately degraded with photochemically produced hydroxyl radicals; and the expected half-life is 10-30 days. The expected half-life in water is between 1-10days.
Ecotoxicity: Is biodegradable in soil. May be slightly toxic to aquatic life

13. Disposal Considerations

Disposal Methods & Containers: Rinse containers 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: None allocated
UN Proper Shipping Name: None allocated
DG Class & Subsidiary Risk: None allocated
Packing Group: None allocated
Hazchem Code: None allocated

15. Regulatory Information

Not classified using the criteria in the Standard Uniform Schedule for Drugs and Poisons.
Not dangerous for the purposes of transport.

16. Other Information

References: MSDS Acetic Acid Glacial A0326 10/01/2008 Mallinckrodt Baker

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| Approved by: Robert Kimpton | Date: August 2009 |

Revision Information: New, 16 heading, format

| Date | Document | Superseded Document | Revision Information |
|-------------|----------------------------|---------------------------|-------------------------|
| August 2006 | ACE00694_5 August 2006 | ACE00694_4 July 2003 | New, 16 heading, format |
| August 2009 | ACE00694_06 August 2009 | ACE00694_5 August 2006 | General review |

END OF MSDS