

LACTIC ACID MSDS (MATERIAL SAFETY DATA SHEET)

1. IDENTIFICATION OF THE PRODUCT

Product Name: LACTIC ACID

2. COMPOSITION, INFORMATION ON INGREDIENTS

CHEMICAL NAME – Lactic Acid
TRADE NAME Lactic acid
CAS No – 79-33-4

To be used as an acidulant, acidity modifier, flavouring agent, preservative, in the food industry, as natural antibiotics in the feed industries or cleaning agent for cleaning

3. HAZARDS IDENTIFICATION

Potential Health Effects Potential Health Effects

| | |
|------------------------------------|---|
| Eye | Causes serious eye irritation |
| Skin | Causes irritation to skin. Symptoms include redness and itching |
| Ingestion | Not known |
| Inhalation | Not known |
| Signs and symptoms of overexposure | Not known |

4. FIRST AID MEASURES

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|------------|--|
| Eyes | Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical assistance immediately. |
| Skin | No significant signs or symptoms indicative of any health hazard are expected to occur as a result of skin contact. Wash skin with soap and plenty of water. |
| Ingestion | Immediate medical attention is required. Drink plenty of water. Do not induce vomiting. |
| Inhalation | Move patient to fresh air |

5. FIRE FIGHTING MEASURES

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|--------------------------------|--|
| Extinguishing media | Use alcohol-resistant foam, carbon dioxide, dry powder or water fog |
| Unsuitable Extinguishing Media | Use only extinguishing measures that are appropriate to local circumstances and surrounding environment |
| Firefighting procedures | Use water to cool fire. Avoid spreading liquid and fire by water flooding. Wear self-contained, positive pressure breathing apparatus and full firefighting clothing |
| Unusual fire/explosion hazard | Oxides of carbon |

6. ACCIDENTAL RELEASE MEASURES

| | |
|---------------------|--|
| General Information | Use proper personal protective equipment as indicated in Section 8. |
| Spills/Leaks | Neutralize with soda or sodium bicarbonate and flush with plenty of water Soak up with inert absorbent material. Clean up and transfer to properly labelled Containers. After cleaning, flush away traces with water. |

Disclaimer: As the users' condition of work is not known, the information contained in this Material Safety Data Sheet is accurate to the best of our knowledge and is based on the national community regulations. The product must not be employed for uses other than those specified without having previously obtained written handling instructions. Users are responsible for taking all necessary to comply with the requirements of the law and local regulations. The information contained in this sheet should be regarded as the description of the safety requirements relating to our products and not as a guarantee of its properties.

7. HANDLING AND STORAGE

| | |
|----------|--|
| Handling | Wash thoroughly after handling. Use only in a well-ventilated area. Do not breathe vapours/dust. Avoid contact with skin and eyes. |
| Storage | Keep container closed when not in use. Store in a cool, dry, well-ventilated area. |

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Personal Protective Equipment

| | |
|------|---|
| Eyes | Use chemical safety goggles. |
| Skin | Wear protective gloves/face shield and clean body-covering clothing. Wash hands after handling the product and before eating. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--------------------------|---|
| Specific Gravity | 1.18 – 1.25 g/cm ³ |
| Refractive index | n/a |
| pH | <2.0 @20°C |
| Solubility in water | Soluble |
| Boiling Point | Decomposes before boiling |
| Appearance and odour | Colourless to yellowish, aqueous solution with characteristic odour |
| Flash point (closed cup) | Not known |

10. STABILITY AND REACTIVITY

| | |
|--------------------------|---------------------------------------|
| Reactivity | Reacts with alkaline material |
| Stability | Stable under normal conditions of use |
| Conditions to Avoid | Avoid temperatures above 200°C |
| Hazardous polymerization | Does not occur |

11. TOXICOLOGICAL INFORMATION

Based on the ingredients in this composition and their concentration, this product is according to the conventional method classified as:
Irritating to skin and eyes

12. ECOLOGICAL INFORMATION

This material is unlikely to accumulate in the environment and environmental problems under normal use conditions are not expected to occur.
Readily biodegradable.

13. DISPOSAL CONSIDERATION

Disposal to licensed waste disposal site in accordance with local waste disposal

14. TRANSPORT INFORMATION

| | |
|----------------------|---------------------------|
| Classification data: | n/a |
| UN Number: | n/a (non-dangerous goods) |
| Class: | n/a |
| Packing group: | n/a |

15. REGULATORY INFORMATION

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|---------------------------|--|
| 15.1 National Legislation | Occupational Health and SAFETY Act, Act 85 of 1993 |
|---------------------------|--|

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