

MALIC ACID MSDS

(MATERIAL SAFETY DATA SHEET)

1. IDENTIFICATION OF THE PRODUCT

Product Name: MALIC ACID

2. COMPOSITION, INFORMATION ON INGREDIENTS

No ingredients known to be hazardous are present.
No ingredients known to be carcinogenic are present.

3. HAZARDS IDENTIFICATION

Potential Health Effects Potential Health Effects

Eye	Causes serious eye irritation
Skin	Irritating to skin
Ingestion	Irritation of the gastrointestinal tract, nausea and may have a laxative effect
Signs and symptoms of overexposure	No significant signs or symptoms indicative of any adverse health hazard are expected to occur.

4. FIRST AID MEASURES

Eyes	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical assistance immediately.
Skin	In case of skin contact, wash with large amounts of water for 15 to 20 minutes
Ingestion	If ingested obtain medical assistance immediately
Inhalation	Remove patient to fresh air, and aid breathing if necessary. Seek medical attention

5. FIRE FIGHTING MEASURES

Extinguishing media	Water spray, carbon dioxide, dry chemical powder or appropriate foam
Firefighting procedures	Fight fire in early stages if safe to do so. 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	Do not inhale explosion and/or combustion gases.

6. ACCIDENTAL RELEASE MEASURES

General Information	Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks	Sweep up, cover or absorb material, then place into a suitable clean, dry, closed container for disposal

7. HANDLING AND STORAGE

Handling	Wash thoroughly after handling. Use only in a well-ventilated area. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation.
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 and clean body-covering clothing. Wash hands after handling the product and before eating.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Solubility in water	>500 g/100ml at 20°C
Boiling Point	150°C (Ca. 1 atm)
Melting Point:	131 - 132°C
Appearance and odour	White or almost white crystalline powder or granule, with sour odour
Flash Point	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal temperatures and pressures.
Conditions to Avoid	Excess heat, incompatible materials
Incompatibilities with Other Materials	Strong oxidising agents
Hazardous polymerization	Not reported

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 the skin and eyes on contact

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATION

Dispose at a suitable waste incineration plant in accordance with local regulations. Where large quantities are concerned, consult supplier.

14. TRANSPORT INFORMATION

Classification data:	N/A
UN Number:	N/A (Non-dangerous goods)
Class:	N/A
Packing group:	N/A

15. REGULATORY INFORMATION

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

Safety, health and environmental regulations/legislation specific for the substance or mixture

Listed in: Europe (ELINCS), Canada (DSL), China (IECSC), Japan (ENCS)