

Material Safety Data Sheet

Effective Date: 01-18-07

I. CHEMICAL PRODUCT

Product: Oxalacetic acid

General Use: Not applicable

EMERGENCY NUMBER (SPILLS, EXPOSURES):

Company: 716-731-5567

CHEMTREC: 800-424-9300

NON-EMERGENCY INFORMATION: 716-731-5567

II. COMPOSITION/INFORMATION ON INGREDIENTSIngredientsMF: C₄H₄O₅
M.W.:132.07CAS No: 328-42-7
EINECS No:206-329-8
OSHA PEL:**III. HAZARDS IDENTIFICATION**

Hazard signs: C: Corrosive

Risk Phrases: R 34: Causes burns.

Safety Phrases: S1/2: Keep locked up and out of reach of children.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

IV. FIRST AID MEASURES

Eyes: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

Skin: In case of skin contact, flush with copious amounts of water for at least 15 minutes.

Ingestion: If swallowed, wash out mouth with water, provided person is conscious. Do not induce vomiting. Call a physician.

Inhalation: If inhaled remove to fresh air. If breathing is difficult give oxygen. If not breathing give artificial respiration.

V. FIRE FIGHTING MEASURES

Extinguishing Media: Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

Thermal Decomposition Products: Not flammable.

Fire Fighting Procedures: Emits toxic fumes under fire conditions. Use water spray to cool containers under fire conditions. Use extinguishing media appropriate to surrounding fire conditions.

General Hazards: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Explosions Hazards: Not applicable

VI. ACCIDENTAL RELEASE MEASURES

Evacuate area.

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

Sweep up, place in covered containers and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

VII. HANDLING AND STORAGE

Handling: Store in an airtight container in a dry place. Refrigerate.

Storage: Storage temperature: below 8 °C. Freezing is acceptable

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Control: Safety shower and eye bath. Use only in a chemical fume hood. Do not breathe dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

Personal protective equipment: Protective clothing.

Respiratory Protection: Appropriate NIOSH/MSHA respirator.

Eye Protection: Chemical safety goggles, faceshield.

Skin/Hand Protection: Chemical resistant gloves.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: white or off-white powder

Boiling Point: Not applicable.

Bulk density: 180 kg/m³

pH (1% solution at 20°C.): Not applicable.

Solubility in water: soluble

Vapor density (air =1): Not applicable.

Vapor pressure (mm Hg at 20°C.): Not applicable.

% Volatile by volume: Not applicable.

X. STABILITY AND REACTIVITY

Flash Point: Not applicable.

Stability: Data not yet available.

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products: Thermal decomposition may produce toxic fumes of carbon monoxide, carbon dioxide.

Hazardous polymerization: Not applicable.

XI. TOXICOLOGICAL INFORMATION

Toxicity: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. Inhalation may result spasm, inflammation and oedema of the larynx and bronchi, chemical pneumonitis and pulmonary oedema.

Irritation: Causes burns. Causes severe eyes and skin irritation. Harmful if swallowed, inhaled or absorbed through skin.

Note: Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

XII. ECOLOGICAL INFORMATION

Water/AIR Pollution: Data not yet available.



Biodegradability: Data not yet available.

XIII. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Container Disposal: Observe all federal, state and local environmental regulation.

XIV. TRANSPORT INFORMATION

ADR/RID: 6.1, III.

IMDG: 6.1/III.

IATA: 6.1/III.

CAO: 619

PAX: 619

UN-Number: 2811

XV. REGULATORY INFORMATION

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710:

CERCLA and SARA Regulations (40 CFR 355, 370 and 372):

Canadian WHMIS Hazard Class and Division:

Symbol (European Union):

EEC Warning Label Statement:

Water Pollution Class (Germany):

XVI. OTHER INFORMATION

The information presented in this Material Safety Data Sheet is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide for safety precautions. The data does not reflect a guarantee of any product properties.