

Material Safety Data Sheet

5-Sulfoisoohtalic Acid

Section 1: Chemical Product and Company Identification

Product Name: 5-Sulfoisophtalic Acid
Chemical Name: Dimethyl-5-Sulfoisophtalate,
Sodium Salt
CAS No.: 3965-55-7
EINECS No.: 223-578-8
Customs Tariff No. : 29173900

Synonym Name:
1,3-BENZENEDICARBOXYLIC ACID, 5-SULFO-1,
SALT,
DMSIP, SIPM, DMS

Chemical Formula:
(COOCH₃)₂-C₆H₃-SO₃Na

Contact Information:

Chemtrade International
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3-DIMETHYL ESTER SODIUM

International Sales:

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS No.	EINECS No.	by weight%
Dimethyl-5-Sulfoisophtalate,Sodium Salt	3965-55-7	223-578-8	100%

Section 3: Hazards Identification

Potential Health Effects

Based on animal data, skin contact with dimethyl-5-sulfoisophtalate, sodium salt may cause severe irritation with burning, redness, swelling, pain or rash.

Based on animal data, eye contact with dimethyl-5-sulfoisophtalate, sodium salt may cause eye irritation with tearing, pain or blurred vision.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

Section 4: First Aid Measures

First Aid

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration.

If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

Flush skin with water after contact. Wash contaminated clothing before reuse.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

Call a physician.

INGESTION

If swallowed, do not induce vomiting.

Immediately give 2 glasses of water.

Never give anything by mouth to an unconscious person.

Call a physician.

Notes to Physicians

Activated charcoal mixture may be beneficial.

Suspend 50 g activated charcoal in 400 mL water and mix well.

Administer 5 mL/kg, or 350 mL for an average adult.

Section 5: Fire and Explosion Data

Flammable Properties

Will burn. Dust can form explosive mixtures in air.

Follow appropriate National Fire Protection Association (NFPA) codes.

Extinguishing Media

Small fires: Dry Chemical. Carbon Dioxide (CO₂).

Large fires: Water Spray. Fog. Foam.

Fire Fighting Instructions

Evacuate personnel to a safe area.

Keep personnel removed and upwind of fire.

Wear self-contained breathing apparatus (SCBA) and full protective equipment.

Cool tank/container with water spray

Section 6: Accidental Release Measures

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up.

Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Accidental Release Measures

Sweep up spillage; transfer to covered metal or fiber container for disposal.

Wash spill area with warm water.

Section 7: Handling and Storage

Handling (Personnel)

Avoid breathing dust.

Avoid contact with eyes, skin, or clothing.

Wash thoroughly after handling.

Storage

Store inside a cool, dry place away from heat, sparks, and flame.

Keep containers upright and tightly closed.

Do not roll drums on side.

Section 8: Exposure Controls/Personal Protection

Engineering Controls

Use sufficient ventilation to keep employee exposure below recommended limits and prevent the formation of explosive dust mixtures in air.

Personal Protective Equipment

EYE/FACE PROTECTION

Wear safety glasses or coverall chemical splash goggles.

RESPIRATORS

A NIOSH approved air purifying respirator with appropriate particulate filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited.

PROTECTIVE CLOTHING

Where there is potential for skin contact have available and wear as appropriate impervious gloves, apron, pants, and jacket.

Exposure Guidelines

Exposure Limits

DMSIP-AP

PEL (OSHA) : Particulates (Not Otherwise Regulated)

15 mg/m³, 8 Hr. TWA, total dust

5 mg/m³, 8 Hr. TWA, respirable dust

TLV (ACGIH) : None Established

Section 9: Physical and Chemical Properties

Physical Data

Evaporation Rate : (Butyl Acetate = 1)

Less than 1

Solubility in Water : 14 WT% @ 61 C (142 F)

pH : 3.6 (Water extract)

Odor : None

Form : Solid, powder

Color : White

Bulk Density (Loose) : 5.2 lb/gal

Section 10: Stability and Reactivity Data

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

None reasonably foreseeable.

Decomposition

May release hazardous and corrosive oxides of sulfur if overheated.

Polymerization

Polymerization will not occur.

Other Hazards

During trans esterification reactions with glycols such as

Ethylene Glycol or Diethylene Glycol, one mole of this product will evolve two moles of Methanol.

Section 11: Toxicological Information

Animal Data

Dimethyl-5-sulfoisophthalate, sodium salt

Oral ALD: > 11,000 mg/kg in rats

Inhalation ALC, 4 hr: >32 mg/L in rats

Animal testing indicates Dimethyl-5-sulfoisophthalate, sodium salt is a mild eye irritant. When tested as a 25% solution, this compound is a severe skin irritant. It is not a skin sensitizer.

Single exposure to Dimethyl-5-sulfoisophthalate, sodium salt by ingestion caused non-specific effects such as weight loss and irritation. Repeated exposure caused reduced growth rate and diarrhea.

Repeated exposure by inhalation caused histopathological changes of the lungs. No animal data are available to define the carcinogenic, developmental, reproductive or mutagenic hazards of Dimethyl-5-sulfoisophthalate, sodium salt.

Section 12: Ecological Information

No information available.

Section 13: Disposal Considerations

Waste Disposal

Comply with Federal, State, and local regulations.

If approved, may be incinerated, or transferred to a licensed disposal contractor.

Section 14: Transport Information

Shipping Information

Not regulated as a hazardous material by DOT or IMO.

Shipping Containers

Section 15: Other Regulatory Information

U.S. Federal Regulations

TSCA Inventory Status : Reported/Included.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes

Chronic : No

Fire : No

Reactivity : No

Pressure : No

LISTS:

Extremely Hazardous Substance -No

CERCLA Hazardous Substance -No

Toxic Chemical -No

Section 16: Other Information

NFPA, NPCA-HMIS

NPCA-HMIS Rating

Health : 2

Flammability : 1

Reactivity : 0

Personal Protection rating to be supplied by user depending on use conditions.

The information above is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance. Users should make their own investigations to determine the suitability of the information for their particular purposes.

Revised version dated: June 1, 2005