

TCI AMERICA SAFETY DATA SHEET

Revision number: 2 Revision date: 11/10/2015

1. IDENTIFICATION

Product name: Malotilate Product code: M2674

Product use: For laboratory research purposes. **Restrictions on use:** Not for drug or household use.

Company: TCI America

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TCI America (8:00am - 5:00pm) PST

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Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.)

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TCI America

Environmental Health Safety and Security

+1-503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Not classifiable

Signal word: None

Hazard Statement(s): None

Pictogram(s) or Symbol(s): None

Precautionary Statement(s): None

Hazards not otherwise classified: [HNOC] May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

 $\begin{tabular}{llll} Substance & Substance \\ Components: & Malotilate \\ Percent: & >98.0\%(GC) \\ CAS Number: & 59937-28-9 \\ Molecular Weight: & 288.38 \\ Chemical Formula: & <math>C_{12}H_{16}O_4S_2$ \\ \end{tabular}

Synonyms: Diisopropyl (1,3-Dithiol-2-ylidene)malonate , (1,3-Dithiol-2-ylidene)malonic Acid Diisopropyl Ester

4. FIRST-AID MEASURES

Inhalation: If a person breathes large amounts of this chemical, move the exposed person to fresh air at once.

Skin contact: If a person feels unwell or symptoms of skin irritation appear, consult a physician.

Eye contact: If this chemical contacts the eyes, promptly wash (irrigate) the eyes with large amounts of water,

occasionally lifting the lower and upper eyelids.

Ingestion: If swallowed, seek medical advice immediately and show the container or label.

Symptoms/effects:

Acute: No data available Delayed: No data available

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4. FIRST-AID MEASURES

Immediate medical attention: Ensure that medical personnel are aware of the material(s) involved and take precautions to protect

themselves.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use extinguishing media suitable for surrounding materials.

Specific hazards arising from the chemical Hazardous combustion products: None

Other specific hazards: Closed containers may explode from heat of a fire.

Special precautions for fire-fighters:

Not available

Special protective equipment for fire-fighters:

Not available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Do not touch damaged containers or spilled material unless wearing appropriate protective clothing

(Section 8).

Personal protective equipment: Safety glasses

Emergency procedures: In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise

caution.

Methods and materials for containment and cleaning up:

Dike far ahead of liquid spill for later disposal.

Environmental precautions:

Prevent entry into sewers, basements or confined areas.

7. HANDLING AND STORAGE

Precautions for safe handling: Follow safe industrial hygiene practices and always wear proper protective equipment when handling this

compound.

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place.

Storage incompatibilities: Store away from oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: No data available

Appropriate engineering controls:

Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment

Respiratory protection: Be sure to use a MSHA/NIOSH approved respirator or equivalent.

Hand protection: Wear protective gloves.

Eye protection: Safety glasses.
Skin and body protection: Lab coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid

Form: Crystal - Powder

Color: Very pale yellow - Pale yellow

Odor: No data available
Odor threshold: No data available

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9. PHYSICAL AND CHEMICAL PROPERTIES

pH: No data available Melting point/freezing point: 61°C (142°F) Boiling point/range: No data available Vapor pressure: No data available **Decomposition temperature:** Vapor density: No data available No data available No data available **Dynamic Viscosity:** No data available Relative density:

Kinematic Viscosity: No data available

Partition coefficient: No data available Evaporation rate: No data available

n-octanol/water (log P_{ow}) (Butyl Acetate = 1)

Flash point: No data available Autoignition temperature: No data available

Flammability (solid, gas): No data available Flammability or explosive limits:

Lower: No data avail

Lower: No data available
Upper: No data available

Solubility(ies):

Soluble: Methanol, Ether, Benzene, Hexane, Cyclohexane

10. STABILITY AND REACTIVITY

Reactivity: Not Available.

Chemical Stability: Stable under recommended storage conditions. (See Section 7)

Possibility of Hazardous Reactions: No hazardous reactivity has been reported.

Conditions to avoid: Avoid excessive heat and light.

Incompatible materials:

Hazardous Decomposition Products:

Oxidizing agents

No data available

11. TOXICOLOGICAL INFORMATION

RTECS Number: OO0970000

Acute Toxicity:

orl-rat LD50:2065 mg/kg ipr-rat LD50:750 mg/kg

ivn-mus LD50:729 mg/kg

Skin corrosion/irritation:

No data available

Serious eye damage/irritation:

No data available

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

No data available

Carcinogenicity:

No data available

IARC: No data available NTP: No data available OSHA: No data available

Reproductive toxicity:

orl-rat TDLo:3200 mg/kg(8-17D preg)

Routes of Exposure: Inhalation, Eye contact, Ingestion, Skin contact.

Symptoms related to exposure:

Overexposure may result in serious illness or death.

Potential Health Effects:

May be harmful if inhaled or ingested. Overexposure may result in serious illness or death.

Target organ(s): No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

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12. ECOLOGICAL INFORMATION

Fish: No data available
Crustacea: No data available
Algae: No data available

Persistence and degradability:

Bioaccumulative potential (BCF):

Mobillity in soil:

Partition coefficient:

n-octanol/water (log Pow)

Soil adsorption (Koc):

Henry's Law:

No data available
No data available
No data available
No data available

constant (PaM3/mol)

13. DISPOSAL CONSIDERATIONS

Disposal of product:Recycle to process if possible.Disposal of container:Dispose of as unused product.

Other considerations: Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

DOT (US) Non-hazardous for transportation.

IATA Non-hazardous for transportation.

IMDG Non-hazardous for transportation.

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

- (i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.
- (ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:

SARA 313: Not Listed SARA 302: Not Listed

State Regulations

State Right-to-Know

MassachusettsNot ListedNew JerseyNot ListedPennsylvaniaNot ListedCalifornia Proposition 65:Not Listed

Other Information

NFPA Rating: HMIS Classification:

International Inventories

EC-No: 261-987-3

16. OTHER INFORMATION

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16. OTHER INFORMATION

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.