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SIGMA-ALDRICH

Safety

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Material Safety Data Sheet

Version 4_2 Revision Date 12/01/2011 Print Date 05/16/2012

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Dimethyl 3,3'-dithiopropionimidate dihydrochloride

Product Number D2388 Aldrich Brand

: Sigma-Aldrich Supplier

3050 Spruce Street

SAINT LOUIS MO 63103

+1 800-325-5832 Telephone +1 800-325-5052 Fax Emergency Phone # (For (314) 776-6555

both supplier and

manufacturer)

Sigma-Aldrich Corporation Preparation Information

Product Safety - Americas Region

1-800-521-8956

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Irritant

GHS Classification

Skin irritation (Category 2)

GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s) H315

Causes skin irritation.

Precautionary statement(s)

Wash skin thoroughly after handling. P264

P280 Wear protective gloves.

IF ON SKIN: Wash with plenty of soap and water. P302 + P352

Specific treatment (see supplemental first aid instructions on this label) P321 P332 + P313 If skin irritation occurs: Get medical advice/ attention.

Take off contaminated clothing and wash before reuse P362

HMIS Classification

Health hazard: 2 Flammability: 0 Physical hazards: 0

NFPA Rating

2 Health hazard: 0 Reactivity Hazard: 0

Potential Health Effects

Aldrich - D2388 Delivery 0841743773-000040 Purchase Order 802056Z Inhalation Skin

May be harmful if inhaled. Causes respiratory tract irritation. May be harmful if absorbed through skin. Causes skin irritation,

Eyes Ingestion Causes eve irritation May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

Wang/Richards' reagent

Dimethyl 3,3'-dithio-bis(propionimidate)dihydrochloride

Formula

C8H16N2O2S2 · 2HCI

Molecular Weight

: 309,28 g/mol

Component		Concentration		
Dimethyl 3,3'-dithiobispropionimidatedihydrochloride				
CAS-No.	38285-78-8	8.		

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area,

If breathed in, move person into fresh air. If not breathing, give artificial respiration, Consult a physician,

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

Never give anything by mouth to an unconscious person, Rinse mouth with water, Consult a physician,

5. FIREFIGHTING MEASURES

Conditions of flammability

Not flammable or combustible

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions, - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides. Hydrogen chloride gas

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

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Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 2 - 8 ℃

Store with desiccant. Keep in a dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NiOSH (US) or EN 166(EU).

Skin and body protection

impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form

powder

Colour

white

Safety data

рΗ

no data available

Melting

Melting point/range: 170 ℃ (338 °F)

point/freezing point

Boiling point no data available

Flash point

no data available

Ignition temperature

no data available

Autoignition

no data availabi

temperature

no data available

temperatur

Lower explosion limit no data available

Upper explosion limit

no data available

Vapour pressure

no data available

Water solubility

Density

soluble

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Partition coefficient:

no data available

n-octanol/water

Relative vapour

no data available

density

Odour

no data available

Odour Threshold

no data available

Evaporation rate

no data available

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available

Conditions to avoid

Avoid moisture.

Materials to avoid

Metals

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions, - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides. Hydrogen chloride gas

Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50

no data available

Inhalation LC50

no data available

Dermal LD50

no data available

Other Information on acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP:

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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OSHA:

No component of this product present at levels greater than or equal to 0,1% is identified as a carcinogen or potential carcinogen by OSHA:

Reproductive toxicity

no data available

Teratogenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation

May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion

May be harmful if swallowed.

Skin

May be harmful if absorbed through skin. Causes skin irritation.

Eyes

Causes eve irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects

no data available

Additional Information

RTECS: Not available

12. ECOLOGICAL INFORMATION

Toxicity

no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

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DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards

Irritant

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

CAS-No.

Revision Date

Dimethyl 3,3'-dithiobispropionimidatedihydrochloride

Dimethyl 3,3'-dithiobispropionimidatedihydrochloride

38285-78-8

New Jersey Right To Know Components

CAS-No. 38285-78-8 Revision Date

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Further information

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