# SIGMA-ALDRICH

1.

# **Material Safety Data Sheet**

Version 4.0 Revision Date 03/13/2010 Print Date 05/29/2012

PRODUCT AND COMPANY IDENTIFICATION			
Product name	E Phenyl disulfide		
Product Number Brand	: 169021 : Aldrich		
Company	: Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA		
Telephone Fax Emergency Phone #	: +1 800-325-5832 : +1 800-325-5052 : (314) 776-6555		

# 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

# **OSHA Hazards**

Irritant

Other hazards which do not result in classification Stench.

## GHS Label elements, including precautionary statements

Pictogram



Signal word	Warning
Hazard statement(s) H315 H319 H335 H400	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Very toxic to aquatic life.
Precautionary statement(s) P261 P273 P305 + P351 + P338	Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
HMIS Classification Health hazard: Flammability: Physical hazards:	2 0 0
NFPA Rating Health hazard: Fire: Reactivity Hazard:	2 0 0
Potential Health Effects	
Inhalation Skin Eyes Ingestion	May be harmful if inhaled. Causes respiratory tract irritation. May be harmful if absorbed through skin. Causes skin irritation. Causes eye irritation. May be harmful if swallowed.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms	:	Diphenyl disulfide
Formula Molecular Weight		C <sub>12</sub> H <sub>10</sub> S <sub>2</sub> 218.34 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Diphenyl disulphide			
882-33-7	212-926-4	-	-

#### **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 inhaled

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

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

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

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

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

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

#### **Environmental precautions**

Do not let product enter drains.

#### Methods and materials for containment and cleaning up

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

# 7. HANDLING AND STORAGE

#### 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. Normal measures for preventive fire protection.

# Conditions for safe storage

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

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves.

#### Eye protection

Safety glasses with side-shields conforming to EN166

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### 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

Sa

Form	crystalline
Colour	light brown
Odour	Stench.
ifety data	
рН	no data available
Melting point	58 - 60 °C (136 - 140 °F) - lit.
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	no data available

## **10. STABILITY AND REACTIVITY**

#### Chemical stability

Stable under recommended storage conditions.

Conditions to avoid no data available

Materials to avoid Strong oxidizing agents, Strong bases

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides

# **11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

LD50 Intraperitoneal - mouse - 100 mg/kg

#### 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.
- 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

# Specific target organ toxicity - single exposure (GHS)

Inhalation - May cause respiratory irritation.

# Specific target organ toxicity - repeated exposure (GHS)

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 eye irritation.

#### Signs and Symptoms of Exposure

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

# Additional Information

RTECS: SS6825000

# **12. ECOLOGICAL INFORMATION**

#### Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 0.11 mg/l - 96 h

# 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

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

#### Contaminated packaging

Dispose of as unused product.

#### **14. TRANSPORT INFORMATION**

#### DOT (US)

UN-Number: 3335 Class: 9 Proper shipping name: Aviation regulated solid, n.o.s. (Diphenyl disulphide) Marine pollutant: No Poison Inhalation Hazard: No

#### IMDG

Not dangerous goods

#### ΙΑΤΑ

UN-Number: 3335 Class: 9 Proper shipping name: Aviation regulated solid, n.o.s. (Diphenyl disulphide)

## **15. REGULATORY INFORMATION**

#### **OSHA Hazards**

Irritant

#### **DSL Status**

All components of this product are on the Canadian DSL list.

#### 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

Diphenyl disulphide	CAS-No. 882-33-7	Revision Date
New Jersey Right To Know Components		
	CAS-No.	Revision Date
Diphenyl disulphide	882-33-7	

#### 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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