



## MATERIAL SAFETY DATA SHEET

PHENYL DISULFIDE

### SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:

Phenyl disulfide, 99%

Catalog Numbers:

AC173710000, AC173710050, AC173710250, AC173710500, AC173711000, AC173712500, NC9064297, XXAC17371-25KG

Synonyms:

Diphenyl disulfide

Company Information:

LEONID CHEMICALS

62/A-2 1st Stage, Yeshwanthpur Industrial Suburb

Ashokpuram School Road

Bangalore-560 022, Karnataka, INDIA

Ph: +91-80-2337 8354, Fax: +91-80-2357 4827

### SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	:	882-33-7
Chemical Name	:	Phenyl disulfide
%	:	99 %
EINECS#	:	212-926-4
Hazard Symbols	:	Un Listed
Risk Phrases	:	Un Listed

### SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: white powder.

Caution! May cause eye and skin irritation. May cause respiratory and digestive tract irritation. The toxicological properties of this material have not been fully investigated.

Target Organs:

None.

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation

Ingestion:

May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation:

May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic:

No information found.

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#### SECTION 4- FIRST AID MEASURES

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Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

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#### SECTION 5- FIRE FIGHTING MEASURES

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General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point:

Not available.

Autoignition Temperature:

Not available.

Explosion Limits, Lower:

Not available.

Upper:

Not available.

NFPA Rating:

(estimated) Health: ; Flammability: ; Instability: 0

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#### SECTION 6- ACCIDENTAL RELEASE MEASURES

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General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

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## SECTION 7 - HANDLING and STORAGE

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### Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

### Storage:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

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## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

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### Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

### Exposure Limits :

Chemical Name	:	Phenyl disulfide
ACGIH	:	none listed
NIOSH	:	none listed
OSHA - Final PELs	:	none listed

### OSHA Vacated PELs:

Phenyl disulfide: No OSHA Vacated PELs are listed for this chemical.

### Personal Protective Equipment

#### Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard En166.

#### Skin:

Wear appropriate protective gloves to prevent skin exposure.

#### Clothing:

Wear appropriate protective clothing to prevent skin exposure.

#### Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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Physical State	:	Powder
Appearance	:	white
Odor	:	None reported.
pH	:	Not available.
Vapor Pressure	:	Not available.
Vapor Density	:	7.53
Evaporation Rate	:	Not available.
Viscosity	:	Not available.
Boiling Point	:	310 deg C
Freezing/Melting Point	:	58.00 - 60.00 deg C

Decomposition Temperature : Not available.  
Solubility : insoluble  
Specific Gravity/Density : Not available.  
Molecular Formula : C12H10S2  
Molecular Weight : 218.33

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#### SECTION 10 - STABILITY AND REACTIVITY

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Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, dust generation, strong oxidants.

Incompatibilities with Other Materials:

Oxidizing agents.

Hazardous Decomposition Products:

Carbon monoxide, oxides of sulfur, irritating and toxic fumes and gases, carbon dioxide.

Polymerization:

Has not been reported

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#### SECTION 11 - TOXICOLOGICAL INFORMATION

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RTECS#:

CAS# 882-33-7: Ss6825000

LD50/LC50:

Not available.

Carcinogenicity:

CAS# 882-33-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology : No information available.  
Teratogenicity : No information available  
Reproductive Effects: No information available  
Mutagenicity : No information available  
Neurotoxicity : No information available

Other Studies:

Un Listed

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#### SECTION 12 - ECOLOGICAL INFORMATION

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No information available.

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#### SECTION 13 - DISPOSAL CONSIDERATIONS

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Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

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RCRAP-Series : None listed.  
RCRA U-Series : None listed.

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#### SECTION 14 - TRANSPORT INFORMATION

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US DOT  
Shipping Name : Please contact Fisher Scientific for shipping information  
Hazard Class :  
UN Number :  
Packing Group :

Canada TDG  
Shipping Name : No information available.  
Hazard Class :  
UN Number :  
Packing Group :

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## SECTION 15 - REGULATORY INFORMATION

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### US FEDERAL

TSCA  
CAS# 882-33-7 is listed on the TSCA inventory

Health & Safety Reporting List  
None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules  
None of the chemicals in this product are under a Chemical Test Rule.

Section 12b  
None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule  
None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding Rqs  
None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances  
None of the chemicals in this product have a TPQ.

Section 313:  
No chemicals are reportable under Section 313.

Clean Air Act:  
This material does not contain any hazardous air pollutants.  
This material does not contain any Class 1 Ozone depletors.  
This material does not contain any Class 2 Ozone depletors.

Clean Water Act:  
None of the chemicals in this product are listed as Hazardous Substances under the CWA.  
None of the chemicals in this product are listed as Priority Pollutants under the CWA.  
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:  
None of the chemicals in this product are considered highly hazardous by OSHA.

STATE:

CAS# 882-33-7 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

Not available

Risk Phrases:

Not available

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

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

S 37 Wear suitable gloves.

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

S 28A After contact with skin, wash immediately with plenty of water.

WGK (Water Danger/Protection)

CAS# 882-33-7: No information available.

Canada - DSL/NDSL:

CAS# 882-33-7 is listed on Canada's DSL List

Canada WHMIS:

WHMIS: Not available.

Canadian Ingredient Disclosure List:

Un Listed

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#### SECTION 16 - ADDITIONAL INFORMATION

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The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.