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Material Safety Data Sheet

1,4-phenylene diisocyanate MSDS

Section 1: Chemical Product and Company Ident	ification			
Product Name: 1,4- phenylene diisocyanate				
CAS No:104-49-4				
Synonym: p-Phenylene isocyanate				
Chemical Name: 1,4- phenylene diisocyanate				
Chemical Formula: C8H4N2O2				
Contact Information for Emergency: (0086) 551 65418695				
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Section 2: Composition and Information on Ingredients		
Composition:		
Name	CAS # %	By Weight
1,4- phenylene diisocyanate	104-49-4	100
Toxicological Data on Ingredients: Not applicable.		

Section 3: Hazards Identification

Emergency Overview

Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation. Lachrymator.

HMIS RATING

HEALTH: 3*

FLAMMABILITY:0 REACTIVITY: 1 NFPA RATING HEALTH: 3 FLAMMABILITY:0

Section 4: First Aid Measures

ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious, Call a physician.

INHALATION EXPOSURE

If inhaled, remove to fresh air, If breathing becomes difficult, call a physician.

DERMAL EXPORSURE

In case of skin contact, flush with copious amount of water for at least 15 minutes. Remove contaminated clothing and shoes.

EYE EXPOSURE

In case of contact with eyes, flush with copious amount of water for at least 15 minutes.

Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5: Fire and Explosion Data

Method: closed cup

Extinguishing Media:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to

prevent contact with skin and eyes.

Specific Hazard(s): Emits toxic fumes under fire conditions.

Section 6: Accidental Release Measures

Procedure to be followed in case of leak or spill Evacuate area.

Procedure(s) of Personal Precaution(s)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Methods For Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7: Handling and Storage

Handling: User Exposure: Do not breathe dust. Do not get in eyes, on skin, on clothing.Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Safety shower and eye bath.Use only in a chemical fume hood. **PERSONAL PROTECTIVE EQUIPMENT**

Eyes: Chemical safety goggles. Hand: Compatible chemical-resistant gloves Respirators: Government approved respirator General Hygiene Measures: Wash thoroughly after handling. Remove and wash contaminated clothing promptly.

Section 9: Physical and Chemical Properties

Physical State: Solid Density: 1.17g/cm3 Boiling point: 236.2 °C at 760 mm Hg Melting point: 94 °C Flash point: 92.4 °C

Section 10: Stability and Reactivity Data

Chemical Stability: Stable under normal temperatures and pressures.

Conditions of Instability: May decompose on exposure to moist air or water.

Materials to Avoid: Amines, Strong oxidizing agents, Strong acids, Strong bases.

Hazardous Decomposition Products: Hydrogen cyanide, nitrogen oxides, carbon monoxide,

carbon dioxide.

Hazardous Polymerization:

Hazardous Polymerization: Will not occur .

Section 11: Toxicological Information

Route of Exposure

Skin contact: Causes skin irritation

Skin Absorption: Harmful if absorbed through skin.

Eye contact: Causes eye irritation. Lachrymator.

Inhalation: Harmful if inhaled. Material is irritating to mucous membranes and upper

respiratory tract

Ingestion: Harmful if swallowed.

Sensitization

Respiratory: May cause allergic respiratory reaction.

SIGNS AND SYMPTOMS OF EXPOSURE

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis,

shortness of breath, headache, nausea, and vomiting.

IRRITATION DATA

Skin

Rabbit

500 mg

Remarks: Severe irritation effect

Section 12: Ecological Information

Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

Shipping Name: Toxic Solids, Organic, NOS Hazard Class: 6.1 UN Number: 2811 Packing Group: II

Section 15: Other Regulatory Information

According to the National Standard of the People's Republic of China,GB12268 Risk Goods List, this product belongs to class 6.1

Section 16: Other Information

References: Not available. Other Special Considerations: Not available. Created: 10/09/2005 05:35 PM Last Updated: 05/21/2017 12:00 PM

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