

(I) Chemical Product and Company Identification

Item Number: T179604

Item Name: N,N,N,N-Tetramethyl 1,4-Phenylenediamine Dihydrochloride

Synonyms: N,N,N',N'-Tetramethyl-p-Phenylenediamine Dihydrochloride; Wurster's Reagent

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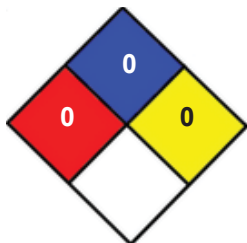
For emergency, call: +201006664471

(II) Composition and Information on Ingredients

CAS Number	EC Number	Formula	FrI Wt (g/ Mole)	Purity (%)	Shelf Life
637-01-4	211-274-8	C10H16N2.2(HCl)	237.17	98	5 Years

(III) Hazards Identification

Health	0
Flammability	0
Reactivity	0
Personal Protection	E



H312+ H302+ H332:Harmful in contact with skin. Harmful if swallowed. Harmful if inhaled

P280:Wear protective gloves/protective clothing/eye protection/face protection



Potential Health Effects:

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

Target Organ: Not Available

Chronic Effects:

Not Available

(IV) First Aid Measures

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

If On Skin: Wash off with soap and plenty of water. Consult a physician.

If In Eyes: 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.

(V) Fire-Fighting Measures

Flash Point (°C): Not Available

Auto-Ignition Temperature(°C): Not Available

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.

(VI) Accidental Release Measures

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

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Prevent further leakage or spillage if safe to do so.

(VII) Handling and Storage

Handling: Avoid contact with skin and eyes. Avoid inhalation of dust, vapour or mist. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage Conditions: Stored at 23 °C maximum, in well ventilated, dry place. Keep container tightly closed away from air, moisture and light.

(VIII) Exposure Controls/ Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate standards

(IX) Physical and Chemical Properties

Shape: Powder

Color: White

Water Solubility: Soluble

Density (Gm/ CC): Not Available

Melting Point (°C): 220-224

Boiling Point (°C): Not Available

Flash Point (°C): Not Available

Viscosity (Centipoise): Not Available

Surface Tension (Dynes/cm): Not Available

Vapor Pressure: Not Available

Refractive Index: Not Available

Optical Activity [a]_{D20}: Not Available



(X) Stability and Reactivity Data

Chemical Stability: Stable under recommended storage conditions.

Incompatibilities with Other Materials: Acids, bases, oxidizing agents, reducing agents

Hazardous Combustion or Decomposition Products: May be hazardous fumes and vapors

Conditions to Avoid: Direct light, open air, moisture, bad ventilation, heating

(XI) Toxicological Information

Toxicity Data:

Not Available

Carcinogenicity Data:

OSHA: Not Available

IARC: Not Available

Carcinogenicity (NTP): Not Available

ACGIH: Not Available



(XII) Ecological Information

Toxicity to Aquatic Organisms: Not Available

Biodegradability: Not Available

Effect on Soil: Not Available

PBT and vPvB Assessment: Not Available

Other adverse effects: Not Available

(XIII) Disposal Considerations

Product: Follow legal and local regulations. Consult a professional waste disposal service.

Contaminated Packaging: Dispose as a used package

(XIV) Transport Information

DOT_Shipping Name: Not Available

DOT_UN Number: UN2811

DOT_Hazard Class: 6.1

DOT_Packing Group: I

DOT_Limited Quantity: 50 Kg

IMDG_Shipping Name: Not Available

IMDG_UN Number: UN2811

IMDG_Hazard Class: 6.1

IMDG_Packing Group: I

IMDG_Limited Quantity: 50 Kg

IATA_Shipping Name: Not Available

IATA_UN Number: UN2811

IATA_Hazard Class: 6.1

IATA_Packing Group: I

IATA_Limited Quantity: 50 Kg

Transport Pictograms:



(XV) Regulatory Information

Exposure Maximum Limit:

OSHA List of Hazardous Materials (USA): Not Available

NIOSH REL List (USA): Not Available

REACH Restriction List (European Union): Not Available

Threshold Limit Values (TLV) of ACGIH (USA): Not Available

National Fire Protection Association (U.S.A.):

Health: 0

Flammability: 0

Reactivity: 0

Specific hazard:

Hazardous Materials Identification System (USA):

Health Hazard: 0

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

Packaging and labeling was according to (GHS):

Hazard Statement(s): H312+ H302+ H332

Precautionary statement(s): P280

(XVI) Other Information

The information on this Material Safety Data Sheet is correct to the best of our knowledge as of the date of publication. This information should be used only as a guide and is not a guarantee of any specific properties. All chemicals should be handled by qualified personnel using proper handling precautions. Nouresh'shark Co cannot accept liability for any loss, damage, or injury that results from the use of this chemical. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

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