

## N,N,N,N-TETRAMETHYL-p-PHENYLENEDIAMINE DIHYDROCHLORIDE

### SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

**Product Name:** N,N,N,N-TETRAMETHYL-p-PHENYLENEDIAMINE DIHYDROCHLORIDE  
**Product Code:** 654  
**CAS#:** 637-01-4  
**Synonym:** Not available  
**Chemical Name:** Not available  
**Chemical Formula:** C<sub>10</sub>H<sub>16</sub>N<sub>2</sub>.2HCl

### SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

**Composition:**  
**Name** N,N,N,N-TETRAMETHYL-p-PHENYLENEDIAMINE DIHYDROCHLORIDE  
**Toxicological Data on Ingredients:** Not available

### SECTION 3: HAZARDS IDENTIFICATION

**Classification of the substance or mixture**  
Classification according to Regulation (EC) No 1272/2008  
Skin irritation (Category 2), H315 Eye irritation (Category 2), H319  
For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4: FIRST AID MEASURES

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.  
**Skin Contact:** Wash off immediately with soap and plenty of water. Cover the irritated skin with emollient. Immediate medical attention is required.  
**Serious Skin Contact:** Not available.  
**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.  
Get medical attention.  
**Serious Inhalation:** Not Available.  
**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.  
**Serious Ingestion:** Not available.

### SECTION 5: FIRE AND EXPLOSION DATA

**Flammability of the Product:** May be combustible at high temperature.  
**Auto-Ignition Temperature:** Not available.  
**Flash Points:** Not available.  
**Flammable Limits:** Not available.  
**Products of Combustion:** Not available.  
**Explosion Hazards in Presence of Various Substances:**  
Risks of explosion of the product in presence of mechanical impact: Not available. Slightly explosive in presence of open flames and sparks.



**Fire Fighting Media and Instructions:**

**SMALL FIRE:** Use DRY chemical powder.

**LARGE FIRE:** Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** Not applicable

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:**

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

**SECTION 7: HANDLING AND STORAGE**

**Precautions:**

Keep away from heat. Keep away from sources of ignition.

**Storage:**

Store in cool, dry place in closed containers

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure controls**

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

**Personal protective equipment**

**Eye/face 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 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.

**Body Protection** Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**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).

**Control of environmental exposure** Do not let product enter drains.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance Form</b>	: Brown-grey color crystalline powder.
<b>Colour</b>	: Not available
<b>Odour</b>	: Not available
<b>Odour Threshold</b>	: Not available
<b>pH</b>	: Not available
<b>Melting point/freezing point</b>	: 227 – 230°C
<b>Initial boiling point and boiling range</b>	: Not available
<b>Flash point</b>	: Not available
<b>Evaporation rate</b>	: Not available
<b>Flammability (solid, gas)</b>	: Not available
<b>Upper/lower flammability or explosive limits</b>	: Not available



Vapour pressure	: Not available
Vapour density	: Not available
Relative density	: Not available
Water solubility	: Not available
Partition coefficient	: Not available
Auto-ignition temperature	: Not available

#### SECTION 10: STABILITY AND REACTIVITY DATA

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Excess heat.

**Incompatibility with various substances:** Not applicable

**Corrosivity:** Not applicable

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Not available.

#### SECTION 11: TOXICOLOGICAL INFORMATION

**Toxicity to Animals:**

**LD50:** Not available.

**LC50:** Not available.

**Chronic Effects on Humans:** Not available.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** *Not available.*

**Special Remarks on other Toxic Effects on Humans:**

Potential Health Effects: No acute exposure studies were found for HEXAMINE in humans. The dust is predicted to be irritating to the eyes, skin, and respiratory tract from mechanical action

#### SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available..

**Toxicity of the Products of Biodegradation:** Not available.

**Special Remarks on the Products of Biodegradation:** Not available.

#### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste treatment methods** Product Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging** Dispose of as unused product.

#### SECTION 14: TRANSPORT INFORMATION

**UN number:**

**ADR/RID:**

**IMDG:**

**IATA:**

**UN proper shipping name**

**ADR/RID:** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods



**Transport hazard class(es):**

**ADR/RID:**

**IMDG:**

**IATA:**

**Packaging group:**

**ADR/RID:**

**IMDG:**

**IATA:**

**Environmental hazards:**

**ADR/RID:** No

**IMDG Marine pollutant:** No

**IATA:** No

**SECTION 15: OTHER REGULATORY INFORMATION**

**Federal and State Regulations:** TSCA 8(b) inventory N,N,N,N-TETRAMETHYL-p-PHENYLENEDIAMINE DIHYDROCHLORIDE,

**Other Regulations:** Not available.

**Other Classifications:**

**WHMIS (Canada):** Not controlled under WHMIS (Canada).

**DSD (EEC):**

This product is not classified according to the EU regulations. Not applicable.

**HMIS (U.S.A.):**

**Health Hazard:** 1

**Fire Hazard:** 1

**Reactivity:** 0

**Personal Protection:** E

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

**Section 16: Other Information**

**References:** Not available.

**Other Special Considerations:** Not available.

**SECTION 16: OTHER INFORMATION**

**References: Full text of H AND R-Statements.**

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

**Other Special Considerations:** Not available

The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user's obligation to investigate and determine the suitability of the information for their particular purpose.

