

# MATERIAL SAFETY DATA SHEET (MSDS)

## N, N, N, N-TETRAMETHYL-P-PHENYLENE DIAMINE DIHYDROCHLORIDE

# 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : N, N, N, N-TETRAMETHYL-P-PHENYLENE DIAMINE

DIHYDROCHLORIDE

**Product code** : T0202900025

Identification of the product : TETRAMETHYL-p-PHENYLENEDIAMINE DIHYDROCHLORIDE

CAS No: 637-01-4

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification Chaitanya Tower, 2nd Floor, Office # 206,

Siddharth Nagar, S.V. Road,

Goregaon (West), Mumbai - 400062.

Maharashtra, India.

**SUVCHEM** 

Contact: +91 22 28725393 / 94 / 95

Email ID: info@suvchem.com/care@suvchem.com

1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

## 2. Hazards identification -DSD

#### 2.1. Classification of the substance or mixture

## Classification EC 67/548 or EC 1999/45

Classification : Xi; R36/37/38

# Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

**Health hazards** : Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -

Category 3 - Warning (CLP : STOT SE 3) H335
Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332 Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302 Acute toxicity, dermal - Category 4 - Warning (CLP: Acute Tox. 4) H312

Skin irritation - Category 2 - Warning (CLP: Skin Corr. 2) H315 Eye irritation - Category 2A - Warning (CLP: Eye Irrit. 2) H319

2.2. Label elements

Labelling EC 67/548 or EC 1999/45



# MATERIAL SAFETY DATA SHEET (MSDS)

# N, N, N-TETRAMETHYL-P-PHENYLENE DIAMINE DIHYDROCHLORIDE

## 2. Hazards identification -DSD (continued)

Symbol(s)

×

Symbol(s) : Xi : Irritant

R Phrase(s) : R36/37/38 : Irritating to eyes, respiratory system and skin.

S Phrase(s) : S26 : In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S36: Wear suitable protective clothing.

### Labelling Regulation EC 1272/2008 (CLP)

**Hazard pictograms** 



Signal words : Warning

**Hazard statements** : H302 : Harmful if swallowed.

H312: Harmful in contact with skin. H319: Causes serious eye irritation. H315: Causes skin irritation. H332: Harmful if inhaled.

H335: May cause respiratory irritation.

**Precautionary statements** 

• **Prevention** : P280: Wear protective gloves, protective clothing, eye protection, face protection.

P271: Use only outdoors or in a well-ventilated area.

P261: Avoid breathing dust, fume, gas, mist, vapours, spray.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

• Response : P302+P352: IF ON SKIN : Wash with plenty of soap and water.

P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel

unwell.

P332+P313: If skin irritation occurs: Get medical advice.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position

comfortable for breathing.

P363: Wash contaminated clothing before reuse.

• Storage : P403+P233: Store in well-ventilated place. Keep container tightly closed.

P405: Store locked up.

• Disposal considerations : P501: Dispose of this material and its container to hazardous or special waste

collection point, in accordance with local, regional, national and/or international

regulation.

2.3. Other hazards

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB

substance according to Annex XIII of Regulation REACH.



# MATERIAL SAFETY DATA SHEET (MSDS)

# N, N, N, N-TETRAMETHYL-P-PHENYLENE DIAMINE DIHYDROCHLORIDE

## 3. Composition/information on ingredients

Substance / Preparation : TETRAMETHYL-p-PHENYLENEDIAMINE DIHYDROCHLORIDE

Substance.

Contains no other components or impurities which will influence the classification of the product.

#### 4. First aid measures

#### 4.1. Description of first aid measures

Inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a

POISON CENTER or doctor if you feel unwell.

Skin contact : Immediately call a POISON CENTER or doctor. Specific treatment (see on this

label). If skin irritation occurs: Get medical advice. Wash with plenty of soap and

water. Wash contaminated clothing before reuse.

**Eye contact**: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

Ingestion : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting. Call a

POISON CENTER or doctor if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms relating to use : Repeated exposure to this material can result in absorption through skin causing

significant health hazard.

Danger of serious damage to health by prolonged exposure through inhalation. Swallowing a small quantity of this material will result in serious health hazard.

Causes serious eye irritation.

Causes skin irritation. May cause respiratory irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek

medical advice (show the label where possible).

#### 5. Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media**: Do not use a heavy water stream.

**Surrounding fires** : Use water spray or fog for cooling exposed containers.

#### 5.2. Special hazards arising from the substance or mixture

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters



# MATERIAL SAFETY DATA SHEET (MSDS)

# N, N, N, N-TETRAMETHYL-P-PHENYLENE DIAMINE DIHYDROCHLORIDE

## 5. Fire-fighting measures (continued)

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory

protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to

enter environment.

#### 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders : Equip cleanup crew with proper protection.

Ventilate area.

For non-emergency personnel : Evacuate unnecessary personnel.

6.2. Environmental precautions

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters

sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Clean up methods : On land, sweep or shovel into suitable containers. Minimize generation of dust.

Store away from other materials.

#### 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

#### 7. Handling and storage

## 7.1. Precautions for safe handling

**Handling** : Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist,

vapours, spray. Wash thoroughly after handling. Do not eat, drink or smoke when

using this product. Wash thoroughly after handling.

Technical protective measures

: Provide good ventilation in process area to prevent formation of vapour.

**Special precautions** 

: Avoid breathing dust, fume, gas, mist, vapours, spray.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container

tightly closed.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)



# MATERIAL SAFETY DATA SHEET (MSDS)

# N, N, N, N-TETRAMETHYL-P-PHENYLENE DIAMINE DIHYDROCHLORIDE

## 7. Handling and storage (continued)

Specific end use(s) : None.

#### 8. Exposure controls/personal protection

#### 8.1. Exposure controls

**Personal protection** : Avoid all unnecessary exposure.

• Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

• Hand protection : Wear protective gloves.

Skin protection
 Eye protection
 Chemical goggles or safety glasses.
 Others
 Wear suitable protective clothing.
 Chemical goggles or safety glasses.
 When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

### 9. Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Solid.

Colour: Grey powderOdour: Odorless

Odour threshold : No data available.

pH value : Not applicable.

Melting point [°C] : 222 - 224 °C

Decomposition point [°C] : N/A Critical temperature [°C] : N/A Auto-ignition temperature [°C] : N/A Flammability (solid, gas) : N/A Flash point [°C] : N/A : N/A Boiling point [°C] : N/A Initial boiling point [°C] Final boiling point [°C] : N/A **Evaporation rate** : N/A Vapour pressure [20°C] : N/A Vapour pressure mm/Hg : N/A Vapour density : N/A Density [g/cm3] : N/A



# MATERIAL SAFETY DATA SHEET (MSDS)

# N, N, N, N-TETRAMETHYL-P-PHENYLENE DIAMINE DIHYDROCHLORIDE

### 9. Physical and chemical properties (continued)

Relative density, gas (air=1) : N/A Relative density, liquid (water=1) : N/A

Solubility in water [% weight] : Soluble in water

Solubility in water : N/A

Log Pow octanol / water at 20°C : No data available.

Solubility : N/A Viscosity at 40°C [mm2/s] : N/A

9.2. Other information

Explosive properties : N/A
Explosion limits - upper [%] : N/A
Explosion limits - lower [%] : N/A

Oxidising properties : No data available.

## 10. Stability and reactivity

## 10.1. Reactivity

**Reactivity** : Not established.

10.2. Chemical stability

**Chemical stability** : Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous reactions : Not established.

10.4. Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

### 11. Toxicological information

## 11.1. Information on toxicological effects



# MATERIAL SAFETY DATA SHEET (MSDS)

# N, N, N, N-TETRAMETHYL-P-PHENYLENE DIAMINE DIHYDROCHLORIDE

## 11. Toxicological information (continued)

**Acute toxicity** 

• Inhalation : Harmful if inhaled.

• **Dermal** : Harmful in contact with skin.

• Ingestion : Harmful if swallowed.

**Corrosion** : Based on available data, the classification criteria are not met.

**Irritation** : Causes serious eve irritation.

Causes skin irritation.

May cause respiratory irritation.

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Toxic for reproduction : Based on available data, the classification criteria are not met.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

## 12. Ecological information

12.1. Toxicity

**Toxicity information** : Not established.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB

substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

**Environmental precautions** : Avoid release to the environment.



# MATERIAL SAFETY DATA SHEET (MSDS)

# N, N, N, N-TETRAMETHYL-P-PHENYLENE DIAMINE DIHYDROCHLORIDE

### 13. Disposal considerations

#### 13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with

local/national regulations.

Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 14. Transport information

#### 14.1. Land transport (ADR-RID)

General information : Not regulated.

### 14.2. Sea transport (IMDG) [English only]

**General information** : Not regulated.

#### 14.3. Air transport (ICAO-IATA) [English only]

General information : Not regulated.

## 15. Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental

regulations/legislation specific for the

substance or mixture

: Ensure all national/local regulations are observed.

REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions. : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

#### 16. Other information

Revision - See : \*

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF

THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and

1999/45/EC, and amending Regulation (EC) No 1907/2006



# MATERIAL SAFETY DATA SHEET (MSDS)

# N, N, N, N-TETRAMETHYL-P-PHENYLENE DIAMINE DIHYDROCHLORIDE

In accordance with REACH Regulation (CE) No 1907/2006 and with CLP Regulation (CE) No 1272/2008

## **DISCLAIMER:**

- SUVCHEM Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- SUVCHEM shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**