

Material Safety Data Sheet



**N,N-DIMETHYL
PARAPHENYLENEDIAMINE HEMI
OXALATE**

VERSION : 05
REVISION DATE : 14/06/2025
EFFECTIVE DATE : 16/06/2025

Product Code : 14178

Page 1 of 10

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

1.1. Product identifier

Trade name : N,N-DIMETHYL PARAPHENYLENEDIAMINE
HEMI OXALATE
Product code : 14178
Identification of the product : N,N-DIMETHYL PARAPHENYLENEDIAMINE
HEMI OXALATE
CAS No : 62778- 12- 5

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

Identified uses : Laboratory chemicals, Manufacture of substances

1.3. Details of the supplier of the safety data sheet

Company identification MOLYCHEM INDIA LLP
Office: Maker Tower 'E', 41-A2, 4th Floor, Above Maker
Arcade, Cuffe Parade, Mumbai 400 005 (INDIA)
Tel: +91 22 4066 8111, 2205 7772 .
Email : info@molychem.net
Works: Plot No. B/9, Badlapur M.I.D.C.,
OPP.Shobhavat Textile Co., Kulgaon, Badlapur (E),
Dist.-Thane-421 503.

1.4. Emergency telephone number

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity, (Category 2)	H300
Acute toxicity, (Category 4)	H332
Acute toxicity, (Category 4)	H312
Skin irritation, (Category 2)	H315
Eye irritation, (Category 2)	H319
Skin sensitisation, (Category 1)	H317
Specific target organ toxicity - single exposure, (Category 3), Respiratory system	H335

Full text of H- and EUH-statements: see section 16

2.2. Label elements

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Page 2 of 10

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS06



GHS07

Signal word (CLP)

: Danger

Hazard statements (CLP)

: H300 - Harmful if swallowed

H312 + H332 - Harmful in contact with skin or if inhaled

H315- Causes skin irritation

H317- May cause an allergic skin reaction

H319- Causes serious eye irritation.

H335- May cause respiratory irritation.

Precautionary statements (CLP)

: P261 - Avoid breathing dust.

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P310- IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P302 + P352 + P312- IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.

P304 + P340 + P312- IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition/information on ingredients

3.1. Substances

Name : N,N-DIMETHYL PARAPHENYLENEDIAMINE
HEMI OXALATE

CAS-No : 62778- 12- 5

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Page 3 of 10

4. First aid measures

4.1. Description of first aid measures

First-aid measures general advice	: Show this safety data sheet to the doctor in attendance.
First-aid measures inhaled	: After inhalation: fresh air.
First-aid measures skin contact	: In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.
First-aid measures after eye contact	: After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
If swallowed	: If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water Foam Carbon dioxide (CO ₂) Dry powder
Unsuitable extinguishing media	: For this substance/mixture no limitations of extinguishing agents are given

5.2. Special hazards arising from the substance or mixture

Carbon oxides
Nitrogen oxides (NO_x)
Combustible.
Development of hazardous combustion gases or vapours possible in the event of fire

5.3. Advice for firefighters

Protection during firefighting	: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing..
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Page 4 of 10

5.3 Further information : Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4. Reference to other sections

For further information refer to section 13.

7. Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Work under hood. Do not inhale substance/mixture.
Hygiene measures	: Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons. Air and light sensitive. Handle and store under inert gas.
Storage away from	: Open flame. Direct sunlight. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
Recommended storage temperature	: +15°C to +27°C

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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Page 5 of 10

8. Exposure controls/personal protection

8.1. Control parameters

Ingredients with workplace control parameters

8.2. Exposure controls

Personal protection equipment

Eye protection

: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Body Protection

: protective clothing

Skin protection

: This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Respiratory protection

: required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P3 Aldrich- 409758 Page 6 of 10 The life science business of Merck operates as MilliporeSigma in the US and Canada The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

8.2.3 Environmental exposure controls

Do not let product enter drains

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

: Powder

Colour

: Grey color

Odour

: No data available

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Page 6 of 10

pH	: No data available
Melting point	: 205 °C
Boiling point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: No data available
Solubility	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: none

9.2. Other information

No data available

10. Stability and reactivity

10.1. Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Open flame. Direct sunlight. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

In the event of fire: see section 5

11. Toxicological information

11.1. Information on toxicological effects

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Page 7 of 10

Acute toxicity (dermal)	: No data available
Acute toxicity (inhalation)	: No data available
Skin corrosion/irritation	: No data available
Additional information	: No data available
Serious eye damage/irritation	: No data available
Respiratory or skin sensitisation	: No data available
Germ cell mutagenicity	: No data available
Carcinogenicity	: No data available
Reproductive toxicity	: No data available
STOT-single exposure	: May cause respiratory irritation
STOT-repeated exposure	: No data available
Aspiration hazard	: No data available

12. Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

12.6 Other adverse effects

No data available

13. Disposal considerations

13.1. Waste treatment methods

No data available

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Page 8 of 10

14. Transport information

In accordance with ADR / IMDG / IATA / RID

14.1. UN number

UN-No. (ADR) : 2811
UN-No. (IMDG) : 2811
UN-No. (IATA) : 2811
UN-No. (RID) : 2811

14.2. UN proper shipping name

Proper Shipping Name (ADR) : TOXIC SOLID, ORGANIC, N.O.S. (N,N-dimethyl-p-phenylenediamine oxalate (2:1))
Proper Shipping Name (IMDG) : TOXIC SOLID, ORGANIC, N.O.S. (N,N-dimethyl-p-phenylenediamine oxalate (2:1))
Proper Shipping Name (IATA) : Toxic solid, organic, n.o.s. (N,N-dimethyl-p-phenylenediamine oxalate (2:1))
Proper Shipping Name (RID) : TOXIC SOLID, ORGANIC, N.O.S. (N,N-dimethyl-p-phenylenediamine oxalate (2:1))

14.3. Transport hazard class(es)

ADR
Transport hazard class(es) (ADR) : 6.1
IMDG
Transport hazard class(es) (IMDG) : 6.1
IATA
Transport hazard class(es) (IATA) : 6.1
RID
Transport hazard class(es) (RID) : 6.1

14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (RID) : II

14.5. Environmental hazards

ADR : no
RID : no
IMDG Marine pollutant : no
IATA : no

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EFFECTIVE DATE : 16/06/2025

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Page 9 of 10

14.6. Special precautions for user

Tunnel restriction code : (D/E)
Further information : No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

15. Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out

16. Other information

Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand
COD	Chemical oxygen demand
COD	Chemical oxygen demand
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level

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Page 10 of 10

NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties
Full text of H- and EUH-statements	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Safety Data Sheet (SDS), EU This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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