

# Otto Chemie Pvt Ltd

An ISO 9001 : 2015 & GMP Certified Company  
Office : No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road,  
Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)  
Tel : + 91 98200 41841 Email : [info@ottokemi.com](mailto:info@ottokemi.com) Web : [www.ottokemi.com](http://www.ottokemi.com)

Creation Date: 20-08-2026

Revision Date: 18-07-2021

## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1: Product identifiers

Product Name: 4,4-Diaminodicyclohexyl methane, 97%  
Product Code: D 1451  
CAS No: 1761-71-3

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  
OTTO CHEMIE PVT LTD  
No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road,  
Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)

1.4. Emergency telephone number  
Phone no. : + 91 98200 41841 (10 : 00 am – 06 : 00 pm)

### SECTION 2: Hazards identification

2.1 Classification of the substance or mixture  
Classification (REGULATION (EC) No 1272/2008)  
Acute toxicity, Category 4  
Skin corrosion, Sub-category 1B

Skin sensitisation, Category 1  
Specific target organ toxicity -  
repeated exposure, Category 2

Long-term (chronic) aquatic hazard,  
Category 2

2.2 Label elements  
Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms  
Signal word  
Hazard statements

H302: Harmful if swallowed.  
H314: Causes severe skin burns and eye damage.  
H317: May cause an allergic skin reaction.  
H373: May cause damage to organs through prolonged or repeated exposure if swallowed.  
H411: Toxic to aquatic life with long lasting effects.

:  
: Danger  
: H302 Harmful if swallowed.  
: H314 Causes severe skin burns and eye damage.  
: H317 May cause an allergic skin reaction.  
: H373 May cause damage to organs through prolonged or repeated exposure if swallowed.  
: H411 Toxic to aquatic life with long lasting effects.

Precautionary  
statements

Prevention:  
P260 Do not breathe dust.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
Response:  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.  
Rinse skin with water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Reduced Labelling (<= 125 ml)

Hazard pictograms

Signal word Danger

Hazard Statements

H314

H317

Precautionary Statements

P260

P280

P303 + P361 + P533

P305 + P351 + P338

Supplemental Hazard  
Statements

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Substance name : 4,4'-Diaminodicyclohexylmethane

EC-No. : 217-168-8

Components

| Chemical name                              | CAS-No.<br>EC-No.      | Concentration (%)<br>w/w) | M-Factor, SCL, ATE |
|--------------------------------------------|------------------------|---------------------------|--------------------|
| 4,4'-<br>Methylenebis(cyclohexyl<br>amine) | 1761-71-3<br>217-168-8 | >= 90 - <= 100            |                    |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : First aiders need to protect themselves.

Show this safety data sheet to the doctor in attendance.

If inhaled : After inhalation: fresh air. Call in physician.

In case of skin contact : In case of skin contact: Take off immediately all contaminated clothing.

Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact : After eye contact: rinse out with plenty of water.

Immediately call in ophthalmologist.

Remove contact lenses.

If swallowed : After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation).

Call a physician immediately.

Do not attempt to neutralise.

### 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

P314 Get medical advice/ attention if you feel unwell.

:

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Do not breathe dust.

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

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

none

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing

media

Water

Foam

Carbon dioxide (CO<sub>2</sub>)

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

Specific hazards during

fire fighting

Combustible.

Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

Hazardous combustion

products

Carbon oxides

Nitrogen oxides (NO<sub>x</sub>)

### 5.3 Advice for firefighters

Special protective

equipment for fire-

Stay in danger area only with self-contained breathing

apparatus. Prevent skin contact by keeping a safe fighters distance or by wearing suitable protective clothing.

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.

## SECTION 6: Accidental release measures

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

Personal precautions : 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

Environmental

precautions

Do not let product enter drains.

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

Methods for cleaning up : Cover drains.

Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up dry. Dispose of properly.

Clean up affected area. Avoid generation of dusts.

### 6.4 Reference to other sections

For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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

Further information on

storage conditions

Tightly closed. Dry.

Storage class (TRGS 510) : 8A, Combustible, corrosive hazardous materials

Further information on

storage stability

Store under inert gas.

Sensitive to carbon dioxide

Recommended storage : Recommended storage temperature see product label.  
temperature

### 7.3 Specific end use(s)

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

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational Exposure Limits

### 8.2 Exposure controls

Individual protection measures, such as personal protective equipment (PPE)

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

Tightly fitting safety goggles

Hand protection

Material : Nitrile rubber

Break through time : 480 min

Glove thickness : 0,11 mm

Protective index : Full contact

Manufacturer : Dermatril®

Material : Nitrile rubber

Break through time : 480 min

Glove thickness : 0,11 mm

Protective index : Splash contact

Manufacturer : Dermatril®

Remarks : 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, D36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Skin and body protection : protective clothing

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 P2

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.

Environmental exposure controls

Advice : Do not let product enter drains.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                       |                                                            |
|---------------------------------------|------------------------------------------------------------|
| Physical state                        | : Crystals or Crystalline                                  |
| Form                                  | : Crystals or Crystalline                                  |
| Color                                 | : Colorless to White                                       |
| Odor                                  | : Ammonia odor                                             |
| Melting point/ range                  | : 36,5 °C                                                  |
| Boiling point/boiling range           | : 329,76 °C (1.013 hPa)                                    |
| Flammability                          | : No data available                                        |
| Upper explosion limit /               | : No data available                                        |
| Upper flammability limit              |                                                            |
| Lower explosion limit /               | : No data available                                        |
| Lower flammability limit              |                                                            |
| Flash point                           | : 159 °C                                                   |
| Method: closed cup                    |                                                            |
| Autoignition temperature              | : No data available                                        |
| Decomposition                         | : No data available                                        |
| temperature                           |                                                            |
| pH                                    | : No data available                                        |
| Viscosity, dynamic                    | : No data available                                        |
| Viscosity, kinematic                  | : No data available                                        |
| Flow time                             | : No data available                                        |
| Water solubility                      | : No data available                                        |
| Partition coefficient: noctanol/water | : log Pow: 2,03 (25 °C)<br>Method: OECD Test Guideline 107 |
| Vapor pressure                        | : 29 hPa (195 °C)<br>< 0,1 hPa (38 °C)                     |
| Relative density                      | : 0,964 (20 °C)<br>Method: OECD Test Guideline 109         |
| Density                               | : 0,95 g/cm3 (25 °C)<br>Method: lit.                       |
| Relative vapour density               | : No data available                                        |
| 9.2 Other information                 |                                                            |
| Explosives                            | : Not classified as explosive.                             |
| Oxidizing properties                  | : none                                                     |
| Burning rate                          | : No data available                                        |
| Evaporation rate                      | : No data available                                        |
| Molecular weight                      | : 210,36 g/mol                                             |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

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

Hazardous reactions : Violent reactions possible with:

Acids

Oxidizing agents

Acid chlorides

Acid anhydrides

### 10.4 Conditions to avoid

Conditions to avoid : Strong heating.

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals:

Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L.

Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant).

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: Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Components:

4,4'-Methylenebis(cyclohexylamine):

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 67,8 mg/l

Exposure time: 96 h

Test Type: static test

Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 9,24 mg/l

Exposure time: 48 h

Test Type: static test

Toxicity to algae/aquatic plants

EC50 (Desmodesmus subspicatus (green algae)): 140 - 200 mg/l

Exposure time: 72 h Test Type: static test

Toxicity to microorganisms

EC50 (Pseudomonas putida): 156 mg/l

Exposure time: 30 min

### 12.2 Persistence and degradability

Components:

4,4'-Methylenebis(cyclohexylamine):

Biodegradability : Test Type: aerobic

Result: According to the results of tests of biodegradability this product is not readily biodegradable.

Biodegradation: < 10 %

Exposure time: 28 d

### 12.3 Bioaccumulative potential

Components:

4,4'-Methylenebis(cyclohexylamine):

Bioaccumulation : Remarks: No data available

Partition coefficient: octanol/water log Pow: 2,03 (25 °C) Method: OECD Test Guideline 107

### 12.4 Mobility in soil

Components:

4,4'-Methylenebis(cyclohexylamine):

Stability in soil : Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

Product:

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 Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR : UN 3259  
IMDG : UN 3259  
IATA : UN 3259

### 14.2 UN proper shipping name

ADR : AMINES, SOLID, CORROSIVE, N.O.S.  
(4,4'-Methylenebis(cyclohexylamine))  
IMDG : AMINES, SOLID, CORROSIVE, N.O.S.  
(4,4'-Methylenebis(cyclohexylamine))  
IATA : Amines, solid, corrosive, n.o.s.  
(4,4'-Methylenebis(cyclohexylamine))

### 14.3 Transport hazard class(es)

ADR : Class 8  
IMDG : 8  
IATA : 8

### 14.4 Packing group

ADR : I  
Packing group : I  
Classification Code : C8  
Hazard Identification : 88  
Number : 8  
Labels : (E)  
Tunnel restriction code : I  
IMDG : 8  
Packing group : F-A, S-B  
Labels : 862  
EmS Code : I  
IATA (Cargo) : Class 8 - Corrosive substances  
Packing instruction (cargo aircraft) : 858  
Packing group : I  
Labels : Class 8 - Corrosive substances  
IATA\_P (Passenger) : I  
Packing instruction (passenger aircraft) : 858  
Packing group : I  
Labels : Class 8 - Corrosive substances

### 14.5 Environmental hazards

ADR : yes  
Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast)

Not applicable

REACH - List of substances subject to authorisation (Annex XIV)

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2 ENVIRONMENTAL HAZARDS

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

## SECTION 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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