

# 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: Cadmium oxide, ≥99.99%  
Product Code: C 1005  
CAS No: 1306-19-0

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 2 H330: Fatal if inhaled.  
Germ cell mutagenicity, Category 2  
Carcinogenicity, Category 1B  
Reproductive toxicity, Category 2

Specific target organ toxicity -  
repeated exposure, Category 1  
Short-term (acute) aquatic hazard,  
Category 1  
Long-term (chronic) aquatic hazard,  
Category 1

2.2 Label elements  
Labelling (REGULATION (EC) No 1272/2008)  
Hazard pictograms  
Signal word  
Hazard statements

H341: Suspected of causing genetic defects.  
H350: May cause cancer.  
H361fd: Suspected of damaging fertility.  
Suspected of damaging the unborn child.  
H372: Causes damage to organs through  
prolonged or repeated exposure.  
H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long  
lasting effects.

: Danger  
: H330 Fatal if inhaled.  
H341 Suspected of causing genetic defects.  
H350 May cause cancer.  
H361fd Suspected of damaging fertility. Suspected  
of damaging the unborn child.  
H372 Causes damage to organs through  
prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting  
effects.

Precautionary  
Statements

Prevention:  
P202 Do not handle until all safety precautions  
have been read and understood.  
P260 Do not breathe dust.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated  
area.  
P273 Avoid release to the environment.  
Response:  
P304 + P340 + P310 IF INHALED: Remove person to

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## Additional Labelling

Reduced Labelling (<= 125 ml)

Hazard pictograms

Signal word

Hazard Statements

H330

H341

H350

H372

H361fd

child.

Precautionary Statements

P202

P260

P264

P271

P304 + P340 + P310

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

EC-No. : 215-146-2

Components

| Chemical name                    | CAS-No.<br>EC-No.      | Concentration<br>(%w/w) | M-Factor, SCL, ATE                                                                                                                                      |
|----------------------------------|------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| cadmium oxide<br>(nonpyrophoric) | 1306-19-0<br>215-146-2 |                         | M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10 Acute toxicity estimate Acute inhalation toxicity (dust/mist): 0,056 mg/l |

## 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. Immediately call in physician.

If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact : In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

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

Call in ophthalmologist.

fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

Restricted to professional users.

:

Danger

Fatal if inhaled.

Suspected of causing genetic defects.

May cause cancer.

Causes damage to organs through prolonged or repeated exposure.

Suspected of damaging fertility. Suspected of damaging the unborn

Do not handle until all safety precautions have been read and understood.

Do not breathe dust.

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

none

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Remove contact lenses.

If swallowed : After swallowing: immediately make victim drink water (two glasses at most).

Consult a physician.

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 GHS label elements) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

## SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

Not combustible.

Ambient fire may liberate hazardous vapours.

Hazardous combustion products

Cadmium/cadmium oxides

5.3 Advice for firefighters

Special protective equipment for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information : 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 generation and inhalation of dusts in all circumstances.

Avoid substance contact.

Ensure adequate ventilation.

Evacuate the danger area, observe emergency procedures, consult an expert.

Wear appropriate personal protective equipment, as indicated in 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 carefully. 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

Advice on 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 GHS label elements

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

Further information on 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.

Storage class (TRGS 510) : 6.1A, Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

Further information on

storage stability

Handle under nitrogen, protect from moisture.

Recommended storage temperature

Recommended storage temperature see product label.

Packaging material : Suitable material: Amber Glass Bottle/Jar

### 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).

Safety glasses

Hand protection

Material : Nitrile rubber

Break through time : 480 min

Glove thickness : 0,11 mm

Protective index : Full contact

Manufacturer : KCL 741 Dermatril® L

Material : Nitrile rubber

Break through time : 480 min

Glove thickness : 0,11 mm

Protective index : Splash contact

Manufacturer : KCL 741 Dermatril® L

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 P3

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                        | : solid (20 °C, 1.013 hPa)                                                  |
| Form                                  | : powder                                                                    |
| Colour                                | : red                                                                       |
| Odour                                 | : odourless                                                                 |
| Melting point/ range                  | : 870 - 950 °C                                                              |
| Boiling point                         | : No data available                                                         |
| Flammability                          | : No data available                                                         |
| Upper explosion limit /               | : No data available                                                         |
| Upper flammability limit              |                                                                             |
| Lower explosion limit /               | : No data available                                                         |
| Lower flammability limit              |                                                                             |
| Flash point                           | : No data available                                                         |
| 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                                                         |
| Solubility(ies)                       |                                                                             |
| Water solubility                      | : 0,0021 g/l (20 °C)<br>Method: OECD Test Guideline 105<br>slightly soluble |
| Partition coefficient: noctanol/water | : No data available                                                         |
| Vapour pressure                       | : No data available                                                         |
| Relative density                      | : No data available                                                         |
| Density                               | : 8,15 g/cm3 (25 °C)<br>Method: lit.                                        |
| Relative vapour density               | : No data available                                                         |
| 9.2 Other information                 |                                                                             |
| Explosives                            | : No data available                                                         |
| Oxidizing properties                  | : No data available                                                         |
| Burning rate                          | : No data available                                                         |
| Evaporation rate                      | : No data available                                                         |
| Molecular weight                      | : 128,41 g/mol                                                              |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 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:

Light metals

Risk of explosion with:

Aluminium

perchlorates

hydrogen sulphide

hydrogen peroxide

Salts of hydrazine

magnesium

with

Heat

### 10.4 Conditions to avoid

Conditions to avoid : no information available

### 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:

cadmium oxide (non-pyrophoric):

Toxicity to daphnia and other aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 0,75 mg/l

Exposure time: 48 h

Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants

EC50 (Pseudokirchneriella subcapitata (algae)): 0,018 mg/l

Exposure time: 72 h

Test Type: static test

Method: OECD Test Guideline 201

M-Factor (Acute aquatic : 10 toxicity)

Toxicity to

microorganisms

NOEC (Sludge Treatment): 0,353 mg/l

Exposure time: 3 h

Test Type: Respiration inhibition

Method: OECD Test Guideline 209

M-Factor (Chronic aquatic toxicity) 10

### 12.2 Persistence and degradability

Components:

cadmium oxide (non-pyrophoric):

Biodegradability : Remarks: No data available

### 12.3 Bioaccumulative potential

Components:

cadmium oxide (non-pyrophoric):

Bioaccumulation : Remarks: No data available

### 12.4 Mobility in soil

Components:

cadmium oxide (non-pyrophoric):

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 2570  
IMDG : UN 2570  
IATA : UN 2570

### 14.2 UN proper shipping name

ADR : CADMIUM COMPOUND  
(cadmium oxide (non-pyrophoric))  
IMDG : CADMIUM COMPOUND  
(cadmium oxide (non-pyrophoric))  
IATA : Cadmium compound  
(cadmium oxide (non-pyrophoric))

### 14.3 Transport hazard class(es)

|      | Class | Subsidiary risks |
|------|-------|------------------|
| ADR  | : 6.1 |                  |
| IMDG | : 6.1 |                  |
| IATA | : 6.1 |                  |

### 14.4 Packing group

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| ADR                                      |                                   |
| Packing group                            | : II                              |
| Classification Code                      | : T5                              |
| Hazard Identification Number             | : 60                              |
| Labels                                   | : 6.1                             |
| Tunnel restriction code                  | : (D/E)                           |
| IMDG                                     |                                   |
| Packing group                            | : II                              |
| Labels                                   | : 6.1                             |
| EmS Code                                 | : F-A, S-A                        |
| IATA (Cargo)                             |                                   |
| Packing instruction (cargo aircraft)     | : 676                             |
| Packing instruction (LQ)                 | : Y644                            |
| Packing group                            | : II                              |
| Labels                                   | : Division 6.1 - Toxic substances |
| IATA_P (Passenger)                       |                                   |
| Packing instruction (passenger aircraft) | : 669                             |
| Packing instruction (LQ)                 | : Y644                            |
| Packing group                            | : II                              |
| Labels                                   | : Division 6.1 - Toxic substances |

### 14.5 Environmental hazards

ADR :  
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)  
Conditions of restriction for the following entries should be considered:

Number on list 23: cadmium oxide (non-pyrophoric)

Number on list 28: cadmium oxide (non-pyrophoric)

Number on list 72: cadmium oxide (non-pyrophoric)

Number on list 75

If you intend to use this product as tattoo ink, please contact your vendor.

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

cadmium oxide (nonpyrophoric)

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.

H2 ACUTE TOXIC

E1 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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