

OTTO CHEMIE PVT LTD

An ISO 9001 : 2015 & GMP Certified Company
101, Aarkay Ruby Industrial Estate (1B), Opp Shree Narayan Industrial Estate,
Chinchpada, Vasai East, Waliv, Maharashtra 401208. Tel : + 91 98200 41841
Email : info@ottokemi.com Web : www.ottokemi.com

Creation Date: 10-08-2026

Revision Date: 29-07-2021

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1. Product identifiers

Product name: Cadmium bromide, 98%
Product Code: C 1252
CAS No: 7789-42-6

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
101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate,
Chinchpada, Vasai East, Waliv, Maharashtra 401208.
Email info@ottokemi.com

1.4. Emergency telephone number
Phone no. : + 91 22 2207 0099 (9:00am - 6:00 pm).

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4

Acute toxicity, Category 4

Acute toxicity, Category 4

Germ cell mutagenicity, Category 1B

Carcinogenicity, Category 1A

Specific target organ toxicity - single expo-sure,
Category 2, Respiratory system

Specific target organ toxicity –
repeated expo-sure, Category 1, Kidney

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

H302: Harmful if swallowed

H332: Harmful if inhaled.

H312: Harmful in contact with skin.

H340: May cause genetic defects.

H350: May cause cancer.

H371: May cause damage to organs.

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

H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.

H340 May cause genetic defects.

H350 May cause cancer.

H371 May cause damage to organs (Respiratory system).

H372 Causes damage to organs (Kidney) through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Prevention

P201 Obtain special instructions before use.

P260 Do not breathe dust.

P273 Avoid release to the environment.

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

Response:

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

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.

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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 : Cadmium(II) Bromide
Index-No. : 048-001-00-5
EC-No. : 232-165-1
Components

Chemical name	CAS RN EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
Cadmium(II) Bromide	7789-42-6 232-165-1	>= 90 - <= 100	

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled

: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/ physician.

In case of skin contact

: Take off all contaminated clothing immediately.

If on skin, rinse well with water.

Call a POISON CENTER or doctor/ physician.

In case of eye contact

: Rinse with plenty of water.

If easy to do, remove contact lens, if worn.

Call a POISON CENTER or doctor/ physician.

If swallowed

: Call a POISON CENTER or doctor/ physician.

Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

None known.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

: Dry powder, Foam, Water spray, Carbon dioxide (CO2)

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting

: No information available.

5.3 Advice for firefighters

Special protective equipment for firefighters

: Use personal protective equipment

Specific extinguishing methods

: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Immediately evacuate personnel to safe areas. Remove undamaged containers from fire area if it is safe to do so.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

: Wear suitable protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

6.2 Environmental precautions

Environmental precautions

: Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

: Pick up and arrange disposal without creating dust.

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6.4 Reference to other sections
See sections: 7, 8, 11, 12 and 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Technical measures

Local/Total ventilation

- : Prevent dispersion of dust.
- : Ensure adequate ventilation.
Handle product only in closed system or provide appropriate exhaust ventilation at machinery.
- : Use a local exhaust ventilation.
- : Avoid contact with skin, eyes and clothing.
Wear personal protective equipment.
Wash hands and face thoroughly after handling.

Advice on safe handling

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas
and containers

- : Keep container tightly closed. Store in a cool and shaded area. Protect from moisture. Keep under inert gas. Store locked up.

7.3 Specific end use(s)

Specific use(s)

- : No information available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Install a closed system or local exhaust.

Also install safety shower and eye bath.

Personal protective equipment

Eye/face protection

Hand protection

Skin and body protection

Respiratory protection

- : Safety glasses, Safety goggles, Face-shield
- : Impervious gloves
- : Impervious protective clothing
- : Dustproof gas mask
- : Self-contained breathing apparatus

Use personal protective equipment(PPE) approved under appropriate government standards and follow local and national regulations.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state

- : Solid form

Colour

- : white

Odour

- : No data available

Odour Threshold

- : No data available

Melting point/freezing point

- : 567 °C

Boiling point/boiling range

- : No data available

Flammability

- : No data available

Upper explosion limit/Upper
flammability limit

- : No data available

Lower explosion limit/Lower
flammability limit

- : No data available

Flash point

- : No data available (Calculated value: >60°C)

Auto-ignition point

- : No data available

Decomposition temperature

- : No data available

Ph

- : No data available

Viscosity

Viscosity, dynamic

- : No data available

Viscosity, kinematic

- : No data available

Solubility(ies)

Water solubility

- : 115 g/l (25 °C)
very soluble

Solubility in other solvents

- : No data available

Partition coefficient

- : No data available

: n-octanol/water (log value)

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Vapour pressure	: No data available
Relative density	: No data available
Relative vapour density	: No data available
Particle characteristics	: No data available
9.2 Other information	
Molecular weight	: 272,22 g/mol

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions

: None under normal processing.

10.4 Conditions to avoid

Conditions to avoid

: Exposure to moisture,

10.5 Incompatible materials

Materials to avoid

: Oxidizing agents,

10.6 Hazardous decomposition products
hydrogen bromide,

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

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

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

Disposal in accordance with local and national regulations.

Entrust disposal to a licensed waste disposal company.

Contaminated packaging

Disposal in accordance with local and national regulations.

Before disposal of used container, remove contents completely.

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

IMDG : CADMIUM COMPOUND

IATA : Cadmium compound

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

Classification Code

Hazard Identification Number

Tunnel restriction code

IMDG

Packing group

EmS Code

IATA (Cargo)

Packing instruction (cargo air-craft)

Packing instruction (LQ)

Packing group

IATA (Passenger)

Packing instruction (passenger aircraft)

Packing instruction (LQ)

Packing group

14.5 Environmental hazards

ADR

Environmentally hazardous

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.

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:

Cadmium(II) Bromide (Number on list 72, 23)

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

Not applicable

Regulation (EC) on substances that deplete the ozone layer

Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants

Not applicable

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Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals

Cadmium(II) Bromide

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

Not applicable

Water hazard class (Germany)

WGK 3 highly hazardous to water

Classification according to AwSV, Annex 1 (5.2)

Other regulations:

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

Contains a substance which is subject to the TRGS 905 list of carcinogenic, germ cell mutagenic and reproductive toxic substances.

cadmium bromide

carcinogenic: category 1B according to Annex I of the CLP Directive

The components of this product are reported in the following inventories:

CH BAGREG

On the inventory, or in compliance with the inventory

TSCA

Substance(s) not active on TSCA inventory

AICS

Not in compliance with the inventory

DSL

All components of this product are on the Canadian DSL

ENCS

On the inventory, or in compliance with the inventory

ISHL

On the inventory, or in compliance with the inventory

KECI

On the inventory, or in compliance with the inventory

PICCS

On the inventory, or in compliance with the inventory

IECSC

On the inventory, or in compliance with the inventory

NZIoC

Not in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

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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