

# 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: 30-06-2026

Revision Date: 25-11-2031

## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1: Product identifiers

Product Name: Antimony shot, 3-5 mm, 99.99%+  
Product Code: A 3797  
CAS No: 7440-36-0

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)  
Carcinogenicity, Category 2  
Specific target organ toxicity -  
repeated exposure, Category  
Lungs

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

Precautionary  
statements

H351: Suspected of causing cancer.  
H373: May cause damage to organs through  
2, prolonged or repeated exposure if inhaled.

: Warning  
: H351 Suspected of causing cancer.  
H373 May cause damage to organs (Lungs)  
through prolonged or repeated exposure if  
inhaled.

: Prevention:  
P202 Do not handle until all safety precautions  
have been read and understood.  
P260 Do not breathe dust.  
P280 Wear protective gloves/ protective clothing/  
eye protection/ face protection.  
Response:  
P308 + P313 IF exposed or concerned: Get medical  
advice/ attention.  
Storage:  
P405 Store locked up.  
Disposal:  
P501 Dispose of contents/ container to an  
approved waste disposal plant.

Reduced Labelling (<= 125 ml)

Hazard pictograms  
Signal word

Hazard Statements  
H351

Precautionary Statements  
P202

P280

:  
Warning

Suspected of causing cancer.

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

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

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P308 + P313  
P405  
P501

IF exposed or concerned: Get medical advice/ attention.  
Store locked up.  
Dispose of contents/ container to an approved waste disposal plant.  
none

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. : 231-146-5

Components

| Chemical name | CAS-No. EC-No.      | Concentration (% w/w) | M-Factor, SCL, ATE |
|---------------|---------------------|-----------------------|--------------------|
| Antimony      | 7440-36-0 231-146-5 | >= 90 - <= 100        |                    |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : 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.

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 2.2) 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.

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Ambient fire may liberate hazardous vapours.

Hazardous combustion products

: Nature of decomposition products not known.

## 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 : 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 : Do not let product enter drains. precautions

### 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.

## 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 2.2.

### 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) : 6.1D, Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

Further information on

storage stability

: Air sensitive.

Moisture sensitive.

Handle and store under inert gas.

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

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational Exposure Limits

### 8.2 Exposure controls

Personal protective equipment

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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state

Form

Color

Odor

Melting point/ range

Boiling point/boiling range

Method: lit.

Flammability

Upper explosion limit /

Upper flammability limit

Lower explosion limit /

Lower flammability limit

Flash point

Autoignition temperature

Decomposition

temperature

: Shots

: powder

: No data available

: odourless

: 630 °C

Method: lit.

: 1.635 °C

: The product is not flammable.

: No data available

: No data available

: Not applicable

: No data available

: No data available

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|                                       |                                                                                     |
|---------------------------------------|-------------------------------------------------------------------------------------|
| pH                                    | : No data available                                                                 |
| Viscosity, dynamic                    | : No data available                                                                 |
| Viscosity, kinematic                  | : No data available                                                                 |
| Flow time                             | : No data available                                                                 |
| Solubility(ies)                       |                                                                                     |
| Water solubility                      | : 17,1 g/l (20 °C)<br>Method: OECD Test Guideline 105<br>GLP: yes<br>partly soluble |
| Partition coefficient: noctanol/water | : Not applicable for inorganic substances                                           |
| Vapor pressure                        | : No data available                                                                 |
| Relative density                      | : 7,05 (21,8 °C)<br>Method: OECD Test Guideline 109<br>GLP: yes                     |
| Density                               | : 6,69 g/cm <sup>3</sup> (25 °C)<br>Method: lit.                                    |
| Relative vapour density               | : No data available                                                                 |
| 9.2 Other information                 |                                                                                     |
| Explosives                            | : No data available                                                                 |
| Oxidizing properties                  | : none                                                                              |
| Burning rate                          | : No data available                                                                 |
| Evaporation rate                      | : No data available                                                                 |
| Molecular weight                      | : 121,76 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

No data available

### 10.4 Conditions to avoid

Conditions to avoid : no information available

### 10.5 Incompatible materials

Materials to avoid : Strong acids

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

## 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:

antimony:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 14,4 mg/l

End point: mortality

Exposure time: 96 h

Test Type: static test

Remarks: (ECHA)

Toxicity to daphnia and

other aquatic

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invertebrates  
: EC50 (Daphnia magna (Water flea)): 423,45 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Remarks: (ECOTOX Database)  
Toxicity to algae/aquatic plants  
: ErC50 (Pseudokirchneriella subcapitata (algae)): > 36,6 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
Toxicity to microorganisms  
: EC50 (activated sludge): 27 mg/l  
Exposure time: 4 h  
Test Type: static test  
Analytical monitoring: yes  
Method: ISO 9509  
Toxicity to fish (Chronic toxicity)  
: NOEC: 1,13 mg/l  
Exposure time: 28 d  
Species: Pimephales promelas (fathead minnow)  
Test Type: flow-through test  
Analytical monitoring: yes  
Remarks: (ECHA)  
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)  
: NOEC: 1,74 mg/l  
End point: reproduction rate  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 211  
Ecotoxicology Assessment  
Chronic aquatic toxicity : This product has no known ecotoxicological effects.  
12.2 Persistence and degradability  
Components:  
antimony:  
Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.  
12.3 Bioaccumulative potential  
Components:  
antimony:  
Partition coefficient: octanol/water  
: Remarks: Not applicable for inorganic substances  
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

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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.

No data available

12.7 Other adverse effects

No data available

## 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 2871

IMDG

: UN 2871

IATA

: UN 2871

14.2 UN proper shipping name

ADR

: ANTIMONY POWDER

IMDG

: ANTIMONY POWDER

IATA

: Antimony powder

14.3 Transport hazard class(es)

Class Subsidiary risks

ADR

: 6.1

IMDG

: 6.1

IATA

: 6.1

14.4 Packing group

ADR

: III

Packing group

: T5

Classification Code

: 60

Hazard Identification

Number

: 6.1

Labels

: (E)

Tunnel restriction code

IMDG

: III

Packing group

: 6.1

Labels

: F-A, S-A

EmS Code

IATA (Cargo)

Packing instruction (cargo aircraft)

: 677

Packing instruction (LQ)

: Y645

Packing group

: III

Labels

: Division 6.1 - Toxic substances

IATA\_P (Passenger)

: 670

Packing instruction

(passenger aircraft)

Packing instruction (LQ)

: Y645

Packing group

: III

Labels

: Division 6.1 - Toxic substances

14.5 Environmental hazards

ADR

Environmentally

: yes

hazardous

IMDG

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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.

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

Banned and/or restricted

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.

Not applicable

#### 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.

Creation Date: 28-06-2026

Revision Date: 25-11-2031

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