

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 Web : 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 sputtering target, diam. × thickness 2 inch × 0.125 inch, 99.999%, with bo
Product Code: A 7705
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 2,
Lungs

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

Precautionary
Statements

approved waste disposal plant.
Reduced Labelling (<= 125 ml)
Hazard pictograms
Signal word
Hazard Statements
H351
Precautionary Statements
P202

P280

H351: Suspected of causing cancer.
H373: May cause damage to organs through
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

: 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

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Specific hazards during
fire fighting
Not combustible.
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).

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

: solid

Form

: powder

Color

: No data available

Odor

: odourless

Melting point/ range

: 630 °C

Method: lit.

Boiling point/boiling range

: 1.635 °C

Method: lit.

Flammability

: The product is not flammable.

Upper explosion limit /

: No data available

Upper flammability limit

Lower explosion limit /

: No data available

Lower flammability limit

Flash point

: Not applicable

Autoignition temperature

: No data available

Decomposition

: No data available

temperature

pH

: No data available

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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) Method: OECD Test Guideline 105 GLP: yes partly soluble
Partition coefficient: noctanol/water	: Not applicable for inorganic substances
Vapor pressure	: No data available
Relative density	: 7,05 (21,8 °C) Method: OECD Test Guideline 109 GLP: yes
Density	: 6,69 g/cm ³ (25 °C) 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

invertebrates

EC50 (Daphnia magna (Water flea)): 423,45 mg/l

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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: noctanol/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
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

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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 :
Packing group : III
Classification Code : T5
Hazard Identification Number : 60
Labels : 6.1
Tunnel restriction code : (E)
IMDG :
Packing group : III
Labels : 6.1
EmS Code : F-A, S-A
IATA (Cargo) :
Packing instruction (cargo aircraft) : 677
Packing instruction (LQ) : Y645
Packing group : III
Labels : Division 6.1 - Toxic substances
IATA_P (Passenger) :
Packing instruction (passenger aircraft) : 670
Packing instruction (LQ) : Y645
Packing group : III
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 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

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