# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** ANTIMONY  
**SDS Number:** SDS-4526  
**Revised Date:** 10 AUGUST 2018  
**Product Use:** METAL ALLOY CONTAINING ANTIMONY – (Solid metal form)

### MANUFACTURER:

**In America:**
The Indium Corporation of America®  
34 Robinson Road, Clinton NY 13323  
Information: (315) 853-4900  
nswarts@indium.com

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Outside USA: +1 (703) 527-3887  
In China: Emergency 86+ 4008417580

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Singapore 628908  
Information: +65 6268-8678  
http://www.indium.com

**In China:**
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No. 428 Xinglong Street  
Suzhou Industrial Park  
Suchun Industrial Square  
Unit No. 14-C  
Jiangsu Province, China 215126  
Information: (86) 512-6283-4900
2. HAZARDS IDENTIFICATION

GHS:
Precautionary statement(s)
P233  Keep container tightly closed
P261  Avoid breathing dust/fume/gas/mist/vapors/spray
P270  Do not eat, drink or smoke when using this product
P273  Avoid release to the environment
P280  Wear protective gloves/protective clothing/eye protection/face protection
P362 + P364  Take off contaminated clothing and wash before reuse
P301 + P314  IF SWALLOWED: Get medical advice/attention if you feel unwell
P302 + P352  IF ON SKIN: Wash with plenty of soap and water
P304 + 341  IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P305 + 351  IF IN EYES: Rinse continuously with water for several minutes (15 mins)

PRIMARY ROUTES OF ENTRY:  CARCINOGEN LISTED IN:
⊗ Eye  ⊗ Inhalation  ⊗ Skin  ⊗ Ingestion  NTP  IARC  OSHA  ⊗ Not Listed

POTENTIAL HEALTH EFFECTS:
Eye Contact:  Contact with powered metal alloy or fume from molten metal may cause irritation. Severe eye damage may result from hot molten metal being splashed into the eyes. Wear safety glasses and face shield when working with molten metal. Dust may produce eye discomfort.

Ingestion:  Ingestion may be discomforting to the gastrointestinal tract. May be harmful is large amounts are swallowed.

Inhalation:  Inhalation of fume or dust may cause local irritation to the respiratory system and gastrointestinal tract. Discomfort may cause sore throat, dizziness, weight loss, anemia. Pulmonary congestion and edema may occur. Those persons with impaired respiratory function may incur further disability if excessive amounts of dust and particulate are inhaled.

Skin Contact:  Normal handling should not cause any adverse health effects. May cause skin irritation. Hot molten metal may cause burns to the skin. Wear protective equipment when handling molten metal. Antimony may cause dermatitis.

Chronic:  Dust greater than 5 micron may cause irritation to nose and throat. Small particulates of less than 1.5 micron may be trapped in the lungs. This may cause serious health consequences.

WARNING: This product can expose you to chemicals including [trace amounts of lead] which is known to the State of California to cause cancer, and can cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

NOTE:  The Indium Corporation does not recommend, manufacturer, market or endorse any of its products for human consumption
3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>% wt</th>
<th>CAS Registry #</th>
<th>PEL mg/m³</th>
<th>TLV-TWA mg/m³</th>
<th>TLV-STEL mg/m³</th>
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<tbody>
<tr>
<td>ANTIMONY</td>
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<td>(China)</td>
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</table>

N.E. = Not established

4. FIRST AID MEASURES

- **Eye Contact:** Hold eyelids apart and flush eyes with plenty of tepid water for at least 15 minutes. Seek medical attention if irritation persists.
- **Ingestion:** If patient is conscious, ONLY induce vomiting as directed by trained personnel. NEVER give anything by mouth to an unconscious person. Seek medical attention immediately.
- **Inhalation:** Remove to fresh air. If not breathing, give artificial respiration or oxygen by trained personnel. Seek immediate medical attention.
- **Skin Contact:** Remove contaminated clothing. Wash affected area with soap and water. Wash clothing before reuse. If irritation persists, obtain medical attention.

5. FIRE FIGHTING MEASURES

- **Flash Point:** None combustible
- **Method:** Not established.
- **Auto-ignition Temperature:** 420°C (cloud)
- **Flammable Limits:** Limits not established. Massive metal is not flammable; however dust or powder may be flammable.
- **Extinguishing Media:** Use extinguishers appropriate for the surrounding fire conditions. Sand or dry powder. Do NOT use water.
- **Special Fire Fighting Procedures:** Firefighters must wear NIOSH approved self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

- **Spill or Leak Procedures:** Contain spill - POLLUTANT. If molten, cool to allow metal to solidify. If a solid metal, wear gloves, pickup and return to process. If dust, wear recommended personal protective equipment. DO NOT SWEEP. Use a vacuum, place in barrels and return to process if applicable. Otherwise, dispose of following all Federal, State and Local regulations. In the EU refer to the Special Waste Regulations. Metal may have reclaim value.
7. HANDLING AND STORAGE

Handling: Only dry metals should be added to molten bath. If working with molten metals, or exposed to fume or dust, use appropriate personal protective equipment.

Precautions: Store product in a cool, dry area away from incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation is recommended to control any air contaminants. Control concentration of all components so that their exposure levels are not exceeded.

Personal protection:
Eyes: Chemical safety glasses/goggles and face shield with molten metal.
Respirator: A NIOSH approved or EU compliant CE marked air-purifying respirator with a fume/dust chemical cartridge is recommended under certain circumstances where airborne concentrations are expected to be elevated.
Skin: Gloves-leather or impervious (vinyl) type. Heat resistant gloves if handling hot metal. Safety type boots. Personal protective equipment is recommended when working with molten metal to avoid burns.
Other: Lab coat, safety shower and eye-wash fountain in work area. Avoid the use of contact lenses in high fume areas.

Work/Hygienic Practices: Maintain good housekeeping. Clean up spills immediately. Good personal hygiene is essential.

Avoid eating, smoking or drinking in the work area. Wash hands thoroughly with soap and water immediately upon leaving the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Silver grey solid metal
Boiling Point: 1635 C (2975F)
Odor: Odorless
Melting Point: 630C (1166F)
Specific Gravity: 6.68@25C
pH: Not applicable
Vapor Pressure: 0.13 @886C
Solubility in Water: Insoluble
Vapor Density: (air=1) Not applicable.
Mohs hardness: 3 – 3.5

10. STABILITY AND REACTIVITY

General: Stable.
Conditions to Avoid: Not established.
Incompatible Materials: Avoid contact with mineral acids, oxidizing agents. Avoid reaction with aqua regia and hot, concentrated sulfuric acid.
Hazardous Decomposition / Combustion: Harmful organic fumes and toxic oxide fumes may form at elevated temperatures.
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity: National Toxicity Program (NTP): No
Occupational Safety & Health Administration (OSHA): No
U.N. International Agency for Research on Cancer (IARC): No
LD50: Not established
LC50: Not established
Other: Oral (rat) LD 50: 7000 mg/kg
Antimony: RTECS CC 4025000

12. ECOLOGICAL INFORMATION
Environmental: No data available.

13. DISPOSAL CONSIDERATION
Waste Disposal Method: Scrap metal alloy usually has value. Contact a commercial reclaimer for recycling. Otherwise, dispose of in accordance with all Federal, State and Local environmental regulations. In Europe follow the Special Waste Regulations.

14. TRANSPORT INFORMATION
Transport in accordance with applicable international regulations and requirements.
Not regulated under US DOT (United States Department of Transportation), as a solid metal form.
Not regulated under IATA.
Not regulated under IDMG.
Other forms of material such as powder may be classified as hazardous for shipping. Review applicable regulations.

15. REGULATORY INFORMATION
The information in this Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated hereunder (29 CFR 1910.1200 ET. SEQ.).

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation (CPR).
Listed on the Canadian Domestic Substance List
This product has been classified in accordance with the guidelines set by the Dept. of Industrial Health of the Republic of Singapore.

WARNING: This product can expose you to chemicals including [trace amounts of lead] which is known to the State of California to cause cancer, and can cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

SARA 313 Listing - 40 CFR 372.65: Antimony CAS# 7440-36-0
All ingredients are listed on the EPA TSCA Inventory.
This product has been classified in accordance with the Mexican guidelines, NOM-018-STPS-2015 and NOM-010-STPS-2014.

In China:
This product has been classified using the Chinese Occupational Limit for Hazardous Agents in the Workplace, GBZ2-2007. Decree No. 591: Regulations on the Control over Safety of Hazardous Chemicals GB 30000.2-29-2013, Rules for classification and labeling of chemicals. (GHS) GB/T 16483-2008, GB/T 17517-2013

This product has been classified in accordance with: Malaysian – OCCUPATIONAL SAFETY AND HEALTH (CLASSIFICATION, LABELING AND SAFETY DATA SHEET OF HAZARDOUS CHEMICALS) REGULATION OCTOBER 2013 – (CLASS).

16. OTHER INFORMATION

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<th>HMIS Hazard Rating:</th>
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<td>Fire:</td>
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<tr>
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<td>Reactivity:</td>
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Revised Date: 10 AUGUST 2018
Prepared by: Nancy Swarts, Indium Corporation of America
Approved by: Nancy Swarts, Indium Corporation of America

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