SAFETY DATA SHEET

This safety data sheet represents a family grouping of all metal mixes that are blended with the same flux. A table is provided that lists all metal groupings. To better serve all of our customers Indium Corporation has generated one SDS, for this product, to be used within the United States as well as internationally. Some of the regulatory information contained within may not be applicable to the customer’s individual state or country. Unless otherwise stated the health and safety information provided within is applicable to all products.

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:  INDALLOY WITH RSA FLUX COATING
SDS Number:  SDS-4115
Revised Date:  6 APRIL 2020
Product Use:  Industrial Use (mixture) - Alloy coated with flux. See alloy table.

MANUFACTURER:

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

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7 Newmarket Ct
Kingston, Milton Keynes, UK, MK 10 OAG
Information: +44 [0] 1908 580400

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Indium Corporation of America
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29 Kian Teck Avenue
Singapore 628908
Information: +65 6268-8678

EMERGENCY PHONE:
CHEMTREC 24 hrs.
USA: 1 (800) 424-9300
Outside USA: +1 (703) 527-3887
In China: Emergency: 86+ 4008417580
2. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY:

- Eye
- Inhalation
- Skin
- Ingestion

Carcinogen listed in

- IARC
- OSHA
- Not Listed

See Section 11

GHS:

Lead/cadmium free products

Signal Word: Warning

Hazard statement(s)

H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
EUH208 Contains rosin. May produce an allergic reaction

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
P301 + P314 IF SWALLOWED: Get Medical advice/attention if you feel unwell
P362 +P364 Take off contaminated clothing and wash before reuse
P302 +P352 IF ON SKIN: Wash with plenty of soap and water

Lead containing products

Signal Word: Warning

Hazard statement(s)

H303 May be harmful if swallowed (lead)
H303 May be harmful if swallowed (lead)
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H332 Harmful if inhaled (lead)
H351 Suspected of causing cancer (lead)
H361 Suspected of damaging fertility or the unborn child (lead) (cadmium)
H373 May cause damage to organs through prolonged or repeated exposure (lead)
H410 Very toxic to aquatic life with long lasting harmful effects(lead) (cadmium)
EUH201A Warning! Contains lead (applicable only to the products listed that contain lead) Review listing.
EUH207 Warning! Contains cadmium. Dangerous fumes are formed during use. Comply with the safety instructions. (applicable only to the products listed that contain cadmium) Review listing.
EUH208 Contains rosin. May produce an allergic reaction

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)

Cadmium/lead containing products

Warning Word: Danger
Hazard statement(s)
H303 May be harmful if swallowed (lead/cadmium)
H330 Fatal if inhaled (cadmium)
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H332 Harmful if inhaled (lead and cadmium containing)
H341 Suspected of causing genetic defects (cadmium)
H350 May cause cancer (cadmium)
H351 Suspected of causing cancer (lead)
H361 Suspected of damaging fertility or the unborn child (applicable to lead containing product)
H372 Causes damage to organs through prolonged or repeated exposure (cadmium)
H373 May cause damage to organs through prolonged or repeated exposure (applicable to lead containing product)
H410 Very toxic to aquatic life with long lasting harmful effects (lead) (cadmium)
EUH201A Warning! Contains lead (applicable only to the products listed that contain lead) Review listing.
EUH207: Warning! Contains cadmium. Dangerous fumes are formed during use.
EUH208 Contains rosin. May produce an allergic reaction

Precautionary statement(s)
P233 Keep container tightly closed
P261 Avoid breathing dust/fume/gas/mist/vapours/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)

Classification:
Carcinogenicity (Category 2) (lead)
Carcinogenicity (Category 1B) (cadmium)
Acute toxicity, Inhalation (Category 2)
Reproductive toxicity (Category 2 ) (lead) (cadmium)
Specific target organ toxicity-repeated exposure (Category 1)
Skin sensitizer-Category 1B
Respiratory sensitizer-Category 1B
Eye irritation-Category 2A
Germ cell mutagenicity (Category 2) (cadmium)
Acute aquatic toxicity – Category 1 for lead / cadmium containing products (H400)
Chronic aquatic toxicity – Category 1 for lead containing products (H410)
POTENTIAL HEALTH EFFECTS:

Eye Contact: Contact with material at room temperature or fume from material at typical re-flow temperatures over 100°C may cause eye irritation. Molten metal can cause damage to eyes.

Ingestion: This product contains metal alloy powder and organic chemicals. May be harmful if swallowed.

Inhalation: Heated vapor concentrations may be harmful if inhaled. Prolonged or repeated exposure to smoke or fumes may cause respiratory sensitization. If applicable, inhalation of cadmium fume or dust can cause metal fume fever. Inhalation of cadmium may be harmful.

Skin Contact: Brief contact may cause slight irritation. Allergic reaction may occur with prolonged exposure to flux. Antimony has been known to cause dermatitis

Chronic: Prolonged or repeated overexposure to mist or vapor generated at high temperatures may result in the inhalation of harmful amounts of material.

**TIN:** Has been shown to increase incidence of sarcoma in animal tests.

**LEAD:** Prolonged exposure to vapors or fumes at higher temperatures may cause respiratory irritation and systematic lead poisoning. Symptoms of lead poisoning include headache, nausea, abdominal pain, muscle and joint pain and damage to the nervous system, blood system and kidneys

**SILVER:** Chronic skin contact or ingestion of silver powder, salts or fume can result in a condition known as Argyria, a condition with bluish pigmentation of the skin and eyes.

**COPPER:** Overexposure to fumes of copper may cause metal fume fever (chills, muscle aches, nausea, fever; dry throat, cough, weakness, lassitude); metallic or sweet taste; discoloration of skin and hair.

**CADMIUM:** Overexposure can cause damage to the lungs and kidneys. Cadmium is a toxic metal and ingestion or inhalation of fumes and dust can be harmful. Included effects may be obstructive lung disease such as emphysema, bone demineralization, micro fractures and osteomalacia, gastrointestinal symptoms, rhinitis and discoloration of the teeth.

**BISMUTH:** May cause kidney damage.

**INDIUM:** May cause damage to respiratory system. Kidney and liver damage from injection of indium compounds has been reported based on limited animal testing. Target organs: teeth and gums

NOTE: The Indium Corporation does not recommend, manufacture, market or endorse any of its products for human consumption.

WARNING: This product can expose you to chemicals including [lead, cadmium] 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](http://www.P65Warnings.ca.gov)

WARNING: This product may contain lead. Lead may be harmful to your health. US Federal law prohibits the use of leaded solders in making joints or fittings in any private or public water supply system. Keep out of the reach of children.
### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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<td>(China) -</td>
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</table>
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:** Not flammable  
**Method:** Not established.

**Auto-ignition Temperature:** Not established.

**Flammable Limits:** Limits not established.
6. ACCIDENTAL RELEASE MEASURES

**Spill or Leak Procedures:** Wear respirator and other personal protective clothing. (See Exposure Controls/Personal Protection Section). Extinguish or remove all sources of ignition. Absorb/scoop up spill, then place in a chemical waste container. Keep unnecessary personnel away. Do Not Sweep material. Avoid generation of dust. Solid material may be reclaimed. Contain spill and do not allow material to enter water ways.

7. HANDLING AND STORAGE

**Handling Precautions:** Use care to avoid spills. Wear appropriate personal protective equipment when working or handling product. Always thoroughly wash your hands after handling this product. DO NOT touch or rub eyes until hands are washed. Do not eat, drink or smoke when handling this product. Utilize exhaust ventilation when heating product. Emissions may contain metal fumes, rosin and organic compounds.

**Storage Precautions:** Keep away from heat and flame. Store in suitable, tightly capped, and labeled containers in cool dry, well-ventilated area. Store away from incompatible materials. Rotate stock to ensure use before expiration date.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Exhaust ventilation is recommended especially during heating. Keep exposures to metal fumes and vapors as low as possible.

**Personal protection:**

**Eyes:** Chemical safety glasses/goggles. Face shield over eye protection for splash protection.

**Respirator:** An authority approved or compliant marked air-purifying respirator with a particulate/fume/organic chemical cartridge is recommended under certain circumstances where airborne concentrations are expected to be elevated. Areas of high fume or dust may require air testing to ensure that the proper respiratory protection is being worn.

**Skin:** Compatible chemical resistant gloves. Hot gloves for handling molten metal.

**Other:** Lab coat, eye-wash fountain in work area. Avoid the use of contact lenses in high fume/dusty areas.

**Work/Hygienic** 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. Avoid exposures to lead and cadmium.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Appearance</td>
<td>Solid metal</td>
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<td>Odor</td>
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<td>Specific Gravity</td>
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<tr>
<td>Vapor Density</td>
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<td>Solubility in Water</td>
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</table>
10. STABILITY AND REACTIVITY

**General:** Stable.

**Conditions to Avoid:** Not established.

**Incompatible Materials:** Acids, bases, oxidizers. Ignites and incandescences on heating with sulfur.

**Hazardous Decomposition / Combustion:** Harmful organic fumes and toxic oxide fumes may form at elevated temperatures. Metal oxide fumes.

**Hazardous Polymerization:** Will not occur.

11. TOXICOLOGICAL INFORMATION

**Carcinogenicity:**
- **NTP:** Cadmium is listed as a possible carcinogen. Yes
- **OSHA:** Cadmium is listed as a possible carcinogen. Yes
- **IARC:** Cadmium is listed as a possible carcinogen and lead and lead compounds are listed. Yes

**LD50:** Not established.

**LC50:** Not established.

**Other:** Chronic Toxicity: Lead and Cadmium can cause potential harm to the developing fetus.

Copper - LD50 – intraperitoneal mouse 3.5 mg/kg.

Silver – LD50 oral – rat > 5,000 mg/kg

Lead – Suspected human reproductive toxicant. May cause damage to organs through prolonged or repeated exposure. Reproductive toxicity – rat –inhalation, oral/ effects on newborn.

Antimony- LD50 oral-rat 7,000 mg/kg

Cadmium- Inhalation, human, 39 mg/m3, LCLO, Oral, rat, 2330 mg/kg, LD50

RTECS# NL1050000 (indium), VM3500000 (silver), XP7320000 (tin), GL7900000 (fume/copper), CC4025000 (antimony), EU9800000 (cadmium)


12. ECOLOGICAL INFORMATION

Product mixtures not tested.

- **Lead – Toxicity to fish – mortality LOEC – rainbow trout – 1.19 mg/l – 96h.** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Bioaccumulation – Oncorhynchus kisutch – 2 weeks
  Bioconcentration factor (BCF): 12. Fresh fish: 0.44 mg/l LC50 96h/ 1.32 mg/l LC50 96h/water Flea: 600 ug/l EC50 = 48h

- **Copper – Toxicity to daphia and other aquatic invertebrates mortality NOEC – Daphnia 0.004 mg/l – 24h.**

- **Cadmium:** 4.26mg/l LC 50 96h, 0.0004-0.003 mg/l LC50 96h, 0.006 mg/l LC50 96h

- **Antimony – Toxicity to fish – mortality NOEC (sheepshead minnow) 6.2 mg/l – 96h.** Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATION

**Waste Disposal Method:** Scrap metal alloy usually has value. Contact a commercial reclaimer for recycling. Otherwise, dispose of in accordance with environmental regulations. Containerize material and classify according to applicable regulations. No pre-treatment on site is recommended. Do not dispose of down any drain or waterway. Utilize the same personal protective equipment as the user when handling for disposal.
14. TRANSPORT INFORMATION

Transport in accordance with applicable international regulations and requirements. Not regulated under US DOT (United States Department of Transportation). Not hazardous under shipping regulations.

North American Emergency Guide Book – Not applicable
UN - none

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.).

SARA 313 Listing - 40 CFR 372.65 (FORM R REPORTING) – Lead, Antimony, Silver, Copper, Cadmium

All ingredients are listed on the EPA TSCA Inventory.
EPA Toxicology Program Lead and Cadmium

WARNING: This product can expose you to chemicals including [lead, cadmium] 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

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation (CPR).

Canadian WHMIS: WHMIS: D2A-Materials Causing Other Toxic Effects-Very Toxic Material (Chronic) (lead and cadmium).
D1A – Materials causing immediate and serious toxic effects –Very Toxic Material (cadmium)
D2B Materials Causing Other Toxic Effects -irritant

This product has been classified in accordance with the guidelines set by the Dept. of Industrial Health of the Republic of Singapore.

This product has been classified in accordance with Mexican regulations NOM-018-STPS-2015 and NOM-010-STPS-2014.

Malaysia:
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).

Regulatory Information China:
GB/T 16483-2008, GB/T 17519-2013, Safety Data Sheets for Chemical Products
GB 30000.2-29-2013, Rules for classification and labeling of chemicals (GHS)
Decree No. 591: Regulations on the Control Over Safety of Hazardous Chemicals.
This product has been classified using the Chinese Occupational Exposure Limit for Hazardous Agents in the Workplace, GBZ2-2007.
## 16. OTHER INFORMATION

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<td>Reactivity:</td>
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**Revised Date:** 6 APRIL 2020  
**Prepared by:** Nancy Swarts, Indium Corporation of America  
**Approved by:** Nancy Swarts, Indium Corporation of America

The information and recommendations contained herein are, to the best of The Indium Corporation of America's knowledge and belief, accurate and reliable as of the date issued. The Indium Corporation of America does not warrant or guarantee their accuracy or reliability, and The Indium Corporation of America shall not be liable for any loss or damage arising out of the user thereof. The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer repackages this product, legal counsel should be consulted to insure proper health, safety and other necessary information is included on the container.
# ALLOY TABLE

Flux coating is 1-3%

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<tr>
<th>ALLOY</th>
<th>RoHS 2/3 Compliance</th>
<th>%TIN Sn</th>
<th>%LEAD Pb</th>
<th>%COPPER Cu</th>
<th>%Indium In</th>
<th>%SILVER Ag</th>
<th>%ANTIMONY Sb</th>
<th>%ZINC Zn</th>
<th>%BISMUTH Bi</th>
<th>%CADMIUM Cd</th>
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RoHS 2 = Restriction of Hazardous Substances under EU Directive 2011/65/EU. *Review for any exemptions that may apply.
RoHS 3 = products do not contain any listed phthalates