This safety data sheet represents a family grouping of all metal mixes that are blended with the same flux known as RA 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. Unless otherwise stated the health and safety information provided within is applicable to all products.

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: INDALLOY WITH RA FLUX COATING

SDS NUMBER: SDS CP038 REVISED DATE: 13 AUGUST 2018

PRODUCT USE: INDUSTRIAL USE (mixture) - METAL BLEND WITH FLUX COATING FOR SOLDERING APPLICATION'S. SEE ALLOY TABLE FOR THE LIST OF PRODUCTS AVAILABLE. SOME HEALTH AND SAFETY INFORMATION MAY NOT BE APPLICABLE TO THE SPECIFIC PRODUCT USED. REVIEW APPLICABLE DATA.

MANUFACTURER:

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

In Europe:
The Indium Corporation of America® (European Operations) 7 Newmarket Ct Kingston, Milton Keynes, UK, MK 10 OAG Information: +44 [0] 1908 580400

In Asia:
Indium Corporation of America Asia-Pacific Operations-Singapore 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:
Indium Corporation (Suzhou), Co., Ltd. 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

PRIMARY ROUTES OF ENTRY:  
- Eye  
- Inhalation  
- Skin  
- Ingestion  

CARCINOGEN LISTED IN:  
- NTP  
- IARC  
- OSHA  
- Not Listed

GHS:  
Lead free products

Warning Word: Warning  

Hazard statement(s)  
H315  Causes skin irritation  
H317  May cause an allergic skin reaction  
H335  May cause respiratory irritation  
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)

Lead containing products

Warning Word: Warning  

Hazard statement(s)  
H303  May be harmful if swallowed (lead/cadmium)  
H315  Causes skin irritation  
H317  May cause an allergic skin reaction  
H334  May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H335  May cause respiratory irritation  
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
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P305 + 351  IF IN EYES: Rinse continuously with water for several minutes (15 mins)

Classification:
Carcinogenicity (Category 2) (lead)
Reproductive toxicity (Category 2 ) (lead)
Skin sensitizer-Category 1B
Respiratory sensitizer-Category 1B
Eye irritation-Category 2A
Acute aquatic toxicity – Category 1 for lead containing products (H400)
Chronic aquatic toxicity – Category 1 for lead containing products (H410)

POTENTIAL HEALTH EFFECTS:

Eye Contact:  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.

Ingestion:  Ingestion of dust may cause headache, nausea, abdominal pain, fatigue and pain in the legs, arms and joints. May be harmful.

Inhalation:  Inhalation of fume or dust may cause local irritation to the respiratory system. Inhalation of fume or dust may cause headache, nausea, abdominal pain, fatigue and pain in the legs, arms and joints. Inhalation can cause shortness of breath and sore throat. Inhalation of cadmium fume or dust can cause metal fume fever. Inhalation of cadmium may be fatal. Inhalation may be harmful.

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.

Chronic:  Indium may cause damage to respiratory system. Kidney and liver damage from injection of indium compounds has been reported based on limited animal testing.

Leak:  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 and muscle and joint pain and damage to the nervous system, blood system and kidneys.

Tin:  has been shown to increase incidence of sarcoma in animal tests.

Silver:  Chronic skin contact or ingestion of silver dust, 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 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.
NOTE: The Indium Corporation does not recommend, manufacture, market or endorse any of its product’s for human consumption.

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.

![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](image)

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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<th>Components</th>
<th>% wt</th>
<th>CAS Registry #</th>
<th>PEL</th>
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<td></td>
<td>0.03(fume)</td>
<td></td>
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</tbody>
</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 established.  Method: Not established.
Auto-ignition Temperature: Not established.
Flammable Limits: Limits not established, not flammable. None combustible solid in bulk form, however, dust or powder may be flammable.
Extinguishing Media: Use extinguishers appropriate for the surrounding fire conditions, such as foam, carbon dioxide, dry chemical and water.
Special Fire Fighting Procedures: Firefighters must wear NIOSH approved self-contained breathing apparatus and full protective clothing.

Explosion Data - Sensitivity to:
Mechanical Impact: Not established
Static Discharge: Not established

6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Contain spill. If molten, cool to allow metal to solidify. If solid metal wear gloves, pick up and return to process. If dust, wear recommended personal protective equipment. Use a vacuum, place in barrels and return to process if possible. Metal can be recycled. Sweeping is not recommended if material can be airborne.

7. HANDLING AND STORAGE

Handling: Only dry metals should be added to molten bath. If working with molten metal, or exposed to fume or dust, use appropriate personal protective equipment. Always thoroughly wash your hands after handling this product. DO NOT touch or rub eyes until hands are washed.
Precautions: Store product in a cool, dry area away from incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Exhaust ventilation is necessary to control any air contaminants and keep exposures as low as possible. Use ventilation for worker protection.

Personal protection:
Eyes: Chemical safety glasses/goggles and face shield with molten metal. Face shield for splash hazards.
Respirator: An authority approved or compliant marked air-purifying respirator with a HEPA particulate/fume cartridge is recommended when contaminants are elevated or during cutting or melting. Certain conditions may require monitoring to determine the correct respiratory protection.
Skin: Rubber or heat resistant gloves. Apron, boots, sleeve protectors may be necessary depending on the type of work performed.
Other: Lab coat, eye-wash fountain in work area. Avoid the use of contact lenses in high fume/dust areas.

Work/Hygienic: Maintain good housekeeping. Clean up spills immediately. Wash hands thoroughly with soap and water immediately upon leaving the work area and before eating. Refrain from eating or smoking in work areas. When applicable in US, review, OSHA lead and cadmium worker requirements. Certain work practice and medical monitoring may be required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Metal preform/shape
Odor: Odorless.
Specific Gravity: See Table
Vapor Pressure: Not applicable.
Boiling Point: Not determined
Melting Point: See Table
pH: Not applicable
Solubility in Water: Insoluble
10. STABILITY AND REACTIVITY

General: Stable.
Conditions to Avoid: Not established.
Incompatible Materials: Avoid contact with acids, sulfur or oxidizing agents. Ignores and incandescences on heating with sulfur.
Hazardous Decomposition / Combustion: Harmful organic fumes and toxic oxide fumes may form at elevated temperatures.
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity Listing:
National Testing Program (NTP): Cadmium is listed as a possible carcinogen. (Yes)
Occupational Safety & Health Administration (OSHA):
Cadmium is listed as a possible carcinogen (Yes)
U.N. International Agency for Research on Cancer (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: Overexposure to fumes may cause respiratory tract irritation. Lead and Cadmium may cause potential harm to the developing fetus.
Cadmium:
Inhalation, human, 39 mg/m3, LC5O
Oral, rat, 2330 mg/kg, LD50
Women, inhalation, dose: 129 ug/m3, 20 years
Chronic Exposure: Teratogen/Mutagen/Reproductive Hazard

Lead:
Genotoxicity in vivo – rat- inhalation
Developmental Toxicity – rat – inhalation
Developmental Toxicity – rat-oral
Reproductive toxicity – rat - inhalation

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

See NIOSH RTECS Number for additional information: NL1050000 (indium metal); 7525000(lead only); 5325000 (copper only); VW3500000(silver only); EU9800000 (cadmium only)

12. ECOLOGICAL INFORMATION

Product not tested. Contains substances that are harmful to the aquatic organisms.
Cadmium: 4.26mg/l LC 50 96h, 0.0004-0.003 mg/l LC50 96h, 0.006 mg/l LC50 96h
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. Do not dispose of on the ground or into any waterway. Lead and cadmium materials are considered to be hazardous waste and should be disposed of properly if they are not recycled. Do not reuse any containers that this product was packaged in. Product container may contain residue of hazardous materials.

14. TRANSPORT INFORMATION

Transport in accordance with applicable international regulations and requirements. Not regulated under US DOT (United States Department of Transportation)-IATA/Ocean).

Non hazardous under shipping modes.

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.).

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


SARA 313 Listing - 40 CFR 372.65 Lead, Antimony, Copper, Cadmium and Silver

EPA Toxicology Program Lead and Cadmium

All ingredients are listed on the EPA TSCA Inventory.

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

Ingredients are 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.

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

For compliance with EU Directive 2011/65/EU, Restriction of Hazardous Substances (RoHS), see Alloy Table.

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), (GHS).
In China:
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 using the Chinese Occupational Limit for Hazardous Agents in the Workplace, GBZ2-2007.
All ingredients are listed on the China Chemical Inventory.

16. OTHER INFORMATION

| HMIS Hazard Rating: | Health: | 2 |
| Fire: | 0 |
| Reactivity: | 0 |

Revised Date: 13 AUGUST 2018
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. The Indium Corporation does not recommend, manufacture, market or endorse any of its products for human consumption.
## ALLOY TABLE
(Alloy mixture with a 1-4% rosin coating)

<table>
<thead>
<tr>
<th>INDALLOY</th>
<th>RoHS 2/3 Compliance</th>
<th>%BISMUTH Bi</th>
<th>%COPPER Cu</th>
<th>%INDIUM In</th>
<th>%LEAD Pb</th>
<th>%TIN Sn</th>
<th>%SILVER Ag</th>
<th>%CADMIUM Cd</th>
<th>%ANTIMONY Sb</th>
<th>MELTING POINT</th>
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</table>
Visit [http://www.indium.com](http://www.indium.com).
RoHS 3 – products do not contain any listed phthalates
Solder related products are not directly related to RoHS. Therefore the above is provided as information only. It is the customer’s responsibility to determine compliance with any applicable regulation.