SAFETY DATA SHEET

This safety data sheet represents a family grouping of all metal mixes that are coated with the same flux known. A table is provided at the end that lists all metal groupings. To better serve all of our customers and reduce the paperwork burden Indium 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 RMA FLUX COATING
SDS Number: SDS- CP039
Revised Date: 16 MARCH 2018
Product Use: Industrial Use - Flux Coated Metal Alloy Mix Soldering Preform (See alloy table for metal mixture)

MANUFACTURER:

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2. HAZARDS IDENTIFICATION

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

Carcinogen listed in
- NTP
- IARC
- OSHA
- Not Listed

GHS:

Lead-free products

Signal Word: Warning
Hazard statement(s)
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
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

Signal Word: Warning
Hazard statement(s)
H303 May be harmful if swallowed
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H351 Suspected of causing cancer
H361 Suspected of damaging fertility or the unborn child
H373 May cause damage to organs through prolonged or repeated exposure
H410 Very toxic to aquatic life with long lasting effects
EUH201AWarning! Contains lead 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
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Classification:
Acute toxicity, oral- Category 5
Sensitization, respiratory – Category 1B
Carcinogenicity (Category 2) (lead)
Reproductive toxicity (Category 2) (lead)
Respiratory sensitizer-Category 1B
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: Moderately to severely irritating to the eyes and if not removed promptly, may result in serious harm. Do not allow material to come in contact with eyes. Contact with fume from molten metal may cause irritation.

Ingestion: May be harmful if swallowed.

Inhalation: Inhalation of fume or dust may cause local irritation to the respiratory system.

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 has been known to cause dermatitis.

Chronic: TIN: Has been shown to increase incidence of sarcoma in animal tests.
LEAD: Prolonged exposure to vapors and/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 dust, salts, or fume can result in a condition known as Argyria, a condition with bluish pigmentation of the skin and eyes.
INDIUM: May cause damage to respiratory system.
BISMUTH: May cause kidney damage.
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.

WARNING: This product can expose you to chemicals including [lead] which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
Note: The Indium Corporation does not recommend, manufacture, market or endorse any of its products 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 potable water supply system. Keep out of the reach of children. Not intended for household use.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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<th>% wt</th>
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N.E. = Not established  * See alloy 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 applicable
**Flammable Limits:** Flammable in the form of dust when exposed to heat or flame.
**Extinguishing Media:** Use extinguishers appropriate for the surrounding fire conditions. Use water spray, carbon dioxide, or foam. Do not allow water run-off to enter sewers or waterways.
**Special Fire Fighting Procedures:** Firefighters wear an approved self-contained breathing apparatus and full protective clothing.

### 6. ACCIDENTAL RELEASE MEASURES

**Spill or Leak Procedures:** Wear HEPA (high efficiency particulate filter) filter respirator and other personal protective clothing. (See Exposure Controls/Personal Protection Section). Clean up spill without generating or dispersing dust into the air. Vacuum solids instead of sweeping. Reduce airborne dust and prevent scattering by moistening with water. Place spilt material in a container and dispose of in accordance with applicable regulations.

### 7. HANDLING AND STORAGE

**Handling Precautions:** Avoid breathing vapors from heated material and dusts from powder form. Avoid contact with eyes, skin and clothing. Follow routine safe handling procedures. Use with adequate ventilation.

**Storage Precautions:** Keep away from heat and flame. Store in suitable, tightly capped, and labeled containers in cool dry, well-ventilated area. Empty containers may be hazardous as they contain product residue.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Local exhaust ventilation is recommended to control any fume or dust air contaminants. Keep personnel exposures to as low as possible.

**Personal Protection:**

**Eyes:** Chemical safety glasses/goggles and face shield with molten metal.

**Respirator:** An authority approved or compliant marked air-purifying respirator with a fume/dust HEPA type Chemical cartridge is recommended under certain circumstances where airborne concentrations are expected to be elevated. 
Warning: Air purifying respirators do not protect the worker in oxygen-deficient atmospheres.

**Skin:** Wear protective gloves, clothing such as lab coat, coveralls, apron and boots.

**Other:** Eye-wash fountain/shower in work area. Avoid the use of contact lenses in high fume and dust areas. Regular shower facilities and industry laundry service may be required.

**Work/Hygienic:** Maintain good housekeeping. Clean up spills immediately. Good personal hygiene is essential. Avoid eating, smoking or drinking in the lead work areas. Wash hands and face thoroughly with soap and water immediately upon leaving the work area and before eating.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Solid, gray metal  
**Boiling Point:** Not available
10. STABILITY AND REACTIVITY

General: Stable.
Conditions to Avoid: Not established
Incompatible Materials: Not established
Hazardous Decomposition / Combustion: Toxic fumes are emitted at elevated temperatures.
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity: NTP (National Toxicity Program): No
OSHA (Occupational Safety & Health Administration): No
IARC (International Agency for Research on Cancer): Yes (Lead and its compounds)
LD50: Not established.
LC50: Not established.

12. ECOLOGICAL INFORMATION

Product has not been tested.
Lead is harmful to the aquatic life.

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 regulations and requirements. Not regulated under US DOT (United States Department of Transportation). Non-hazardous for all shipping modes.

UN – none
Non-hazardous- ground/IATA/IMDG, international shipping

15. REGULATORY INFORMATION

The information in this Safety Data Sheet meets the requirements of the United States Occupational
WARNING: This product can expose you to chemicals including [lead] which is known to the State of California to cause cancer, and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

SARA 313 Listing - 40 CFR 372.65 – Lead CAS# 7439-92-1 Silver CAS# 7440-22-4 Copper 7440-50-8
Ingredient is listed on the EPA TSCA Inventory.

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

Canadian WHMIS: Class D 2A  Poisonous and infectious mater-Other effects – Very Toxic (lead)
Class D 2B Material causing other toxic effects – (skin irritation)

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). (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

16. OTHER INFORMATION

HMIS Hazard Rating:
- Health: 2
- Fire: 1
- Physical Hazard: 0

Revised Date: 16 MARCH 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,
### ALLOY MIXTURE TABLE

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<th>INDALLOY METAL ALLOY MIX IDENTIFICATION</th>
<th>% INDIUM In</th>
<th>% LEAD Pb</th>
<th>% BISMUTH Bi</th>
<th>% TIN Sn</th>
<th>% ANTIMONY Sb</th>
<th>% SILVER Ag</th>
<th>% COPPER Cu</th>
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<td>220C/428F</td>
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## Metal Alloy Mix Identification

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<tr>
<th>INDALLOY</th>
<th>%INDIUM In</th>
<th>%LEAD Pb</th>
<th>%BISMUTH Bi</th>
<th>%TIN Sn</th>
<th>%ANTIMONY Sb</th>
<th>%SILVER Ag</th>
<th>%COPPER Cu</th>
<th>%GOLD Au</th>
<th>SG</th>
<th>MELTING POINT</th>
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</thead>
<tbody>
<tr>
<td>256 (SAC305) (96.5Sn/3Ag/0.5Cu)</td>
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<tr>
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</table>

## Non Standard Alloy Mix

| NS (60Sn/39.65Pb/0.35Sb) | - | 39.65 | - | 60 | 0.35 | - | - | - | 8.48 | - |
| NS (96.3Sn/3.7Ag) | - | - | - | 96.3 | - | 3.7 | - | - | 7.36 | - |
| NS (77Pb/20Sn/3Ag) | - | 77 | - | 20 | - | 3 | - | - | 10.19 | - |
| NS (96Sn/4Ag) | - | - | - | 96 | - | 4 | - | - | 7.37 | - |

.ns = Non Standard Alloy Blend

= RoHS 2 Complaint  EU Directive 2011/65/EU

Indium Corporation is providing this above RoHS statement as information only. Solder related products are not directly related to the EU Directive. It is the responsibility of the customer to determine compliance with the regulations. Please review any applicable exemptions that may apply. It is the customer’s responsibility to determine whether or not exemptions will or can be taken. Indium Corporation cannot make that determination. Above products do not contain any RoHS flame retardants.

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