This safety data sheet represents a family grouping of all metal mixes that are blended with the same flux cake to make a flux cored wire for soldering applications. A table is provided that lists all metal groupings. Please review for the product that is being used.

### 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Identifier</th>
<th>INDALLOY WITH FLUXCAKE-808 (CW-808)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDS Number</td>
<td>SDS-CW 6337S</td>
</tr>
<tr>
<td>Revised Date</td>
<td>25 SEPTEMBER 2018</td>
</tr>
<tr>
<td>Product Use</td>
<td>Industrial Use - Flux cored wire for soldering applications. (See alloy table for metal alloy mix)</td>
</tr>
<tr>
<td>Flux varies between</td>
<td>1-5%</td>
</tr>
</tbody>
</table>

**MANUFACTURER:**

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

- **Indium Corporation of America®**
  - Chicago Materials Division
  - 80 Scott Street
  - Elk Grove Village, Illinois 60007

- **In Europe:**
  - 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

- **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

**EMERGENCY PHONE:**

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

PRIMARY ROUTES OF ENTRY:  
Eye  Inhalation  Skin  Ingestion  
Carcinogen listed in  
NTP  IARC  OSHA  Not Listed

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
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)
P301  Dispose of contents by recycling or thru an approved chemical waste hauler.

Classification:
Sensitization, skin (Category 1B)
Sensitization, respiratory (Category 1B)
Eye irritation (Category 2B)

POTENTIAL HEALTH EFFECTS:

Eye Contact:  Irritating to the eyes and if not removed, may result in serious injury. Contact with fume from molten metal may cause irritation.

Ingestion:  This product contains metal and organic chemicals. May cause irritation or harm.

Inhalation:  Inhalation of fume or dust may cause local irritation to the respiratory system. Rosin may cause occupational asthma.
**Skin Contact:** May cause skin irritation. Rosin may cause dermatitis or sensitization.

**Chronic:**

**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.

**TIN:** Prolonged inhalation of fume may result in lung complications.

**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.

**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 [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](http://www.P65Warnings.ca.gov)

Sold metal wire is not hazardous.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>% wt</th>
<th>CAS Registry #:EINECS#</th>
<th>PEL mg/m³</th>
<th>TLV-TWA mg/m³</th>
<th>TLV-STEL mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIN</td>
<td>*</td>
<td>7440-31-5/231-141-8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(US) 2</td>
<td>2</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(EU) -</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Canada) -</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Singapore) 2</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>SILVER</td>
<td>*</td>
<td>7440-22-4/231-131-3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(US) 0.01</td>
<td>0.1</td>
<td>0.1</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(EU) -</td>
<td>0.1</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Canada) -</td>
<td>0.1</td>
<td>0.1</td>
<td>0.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Singapore) 0.1</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Mexico) -</td>
<td>0.1</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>COPPER</td>
<td>*</td>
<td>7440-50-8/231-159-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**ALLOY TABLE**

Metal alloy mixed with rosin (1-4%)

<table>
<thead>
<tr>
<th>INDALLOY</th>
<th>Tin Sn</th>
<th>Copper Cu</th>
<th>Silver Ag</th>
<th>Specific Gravity (metal mix)</th>
<th>RoHS 2 Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>256 (SAC 305)</td>
<td>92.6 - 95.5</td>
<td>0.48-0.495</td>
<td>2.88 - 2.97</td>
<td>7.40</td>
<td>Yes</td>
</tr>
<tr>
<td>(96.5Sn/3Ag/0.5Cu)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Review applicable exemptions that may apply, otherwise not compliant. RoHS 2 (2011/65/EU)

RoHS 3- no phthalates

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.
Extinguishing Media: Use extinguishers appropriate for the surrounding fire conditions.

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: Pick up solids and put in container for reuse or recycling. Do not sweep powder or small particulate. Use vacuum. Reduce airborne dust and prevent scattering by moistening with water. Dispose of following all Federal, State and Local regulations.

7. HANDLING AND STORAGE

Handling: Keep containers tightly closed when not in use. Use care to avoid spills. Always thoroughly wash your hands after handling this product. DO NOT touch or rub eyes until hands are washed.

Storage Precautions: Refer to product label for specific storage temperature requirements. Rotate stock to ensure use before expiration date on the label.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Exhaust ventilation is recommended to keep exposures below established limits and protect operators. Use proper ventilation when working with leaded products.

Personal protection:
Eyes: Chemical safety glasses/goggles. Face shield for splash hazards.
Respirator: An approved or compliant marked air-purifying respirator with a fume/organic chemical cartridge is recommended under certain circumstances where airborne concentrations are expected to be elevated or exceed exposure limits.
Skin: Compatible chemical resistant gloves may be required for certain applications. Hot gloves as needed for melting applications.
Other: Lab coat, eye-wash fountain in work area. Avoid the use of contact lenses in high fume areas. Follow standard lead work practices when working with lead containing products.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES
10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Carcinogenicity: NTP: No
OSHA: No
IARC: No
LD50: Not established.
LC50: Not established.
Contains <0.1% of a substance that is suspected of causing cancer.

12. ECOLOGICAL INFORMATION

Protect not tested.

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.

14. TRANSPORT INFORMATION

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

Not hazardous under shipping regulations (USDOT/IATA/IMDG)
UN – none
Marine Pollutant- 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
   Silver   Copper   Lead

All ingredients are listed on the EPA TSCA Inventory.

![Warning Icon]

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

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, GBZ2-2002.

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

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

Canadian WHMIS:
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: Malaysian – OCCUPATIONAL SAFETY AND HEALTH (CLASSIFICATION, LABELING AND SAFETY DATA SHEET OF HAZARDOUS CHEMICALS) REGULATION OCTOBER 2013 – (CLASS).
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS Hazard Rating:</th>
<th>Health:</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fire:</td>
<td>1</td>
</tr>
<tr>
<td>Reactivity:</td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

Revised Date: 25 SEPTEMBER 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.