



## SAFETY DATA SHEET

This safety data sheet (SDS) represents a family grouping of all metal mixes that are blended with the same flux. A table is provided that lists all metal groupings.

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product Identifier

Product name - INDALLOY WITH INDIUM 5.9HFF FLUX VEHICLE

**SDS Number:** SDS-6311

**Revised Date:** 5 SEPTEMBER 2018

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Product Use:** Industrial Use (Mixture) - Solder paste consisting of a flux vehicle blended with 83 - 92 weight percent pre-alloyed metal powder used for soldering applications. Review alloy table for exact product identification. Note: this SDS covers various metal mixtures using the same flux. Use- soldering application.

See alloy table for listing of products included under this SDS.

#### 1.3 Details of the supplier of the safety data sheet

##### MANUFACTURER/SUPPLIER/IMPORTER:

##### In America:

The Indium Corporation of America®  
 34 Robinson Rd, Clinton NY 13323  
 Technical & Safety Information: (315) 853-4900  
 Safety & SDS Information: [nswarts@indium.com](mailto:nswarts@indium.com)  
 Corporation web page: <http://www.indium.com>

##### In Europe:

Indium Corporation of America (European Operations)  
 7 Newmarket Ct.  
 Kingston, Milton Keynes, UK, MK 10 OAG  
 Information: (normal business hours) +44 [0] 1908 580400  
 EU Contact: [aday@indium.com](mailto:aday@indium.com)

##### 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

**In Asia:**

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

**1.4 Emergency telephone number**

**FOR CHEMICAL EMERGENCY ONLY PHONE \*:**

**CHEMTREC 24 hrs.**

**USA: 1 (800) 424-9300**

**Outside USA: +1 (703) 527-3887**

**\* Used only for spill/leak/fire/exposure/accident**

**ALL OTHER INQUIRIES: TOLL FREE: +1-800-448-9240 Indium Corporation**

**SECTION 2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

Regulation (EU Directive 67/548/EEC or 1999/45/EC. Mixture

**2.2 Label elements****Lead free products**

Labelling according to Regulation (EC) No. 1272/2008

Pictogram



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	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 min)

**Lead containing products**

Labelling according to Regulation (EC) No. 1272/2008

Pictogram



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
- 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 harmful effects
- EUH201A Warning! 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
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P362 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 min)

Classification:

- Eye Irritant (Category 2)
- Acute toxicity, Oral (Category 4) (lead)
- Carcinogenicity (Category 2) (lead)
- Reproductive toxicity (Category 2) (lead)
- Acute aquatic toxicity (Category 1) (lead)
- Chronic aquatic toxicity (Category 1) (lead)

**PRIMARY ROUTES OF ENTRY:**

- Eye
- Inhalation
- Skin
- Ingestion

**Carcinogen listed in**

- NTP
- IARC
- OSHA
- Not Listed

**2.3 Other hazards**

**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 severe eye irritation.

**Ingestion:** This product contains metal alloy powders and chemicals. Irritating to digestive tract. May be harmful.

**Inhalation:** Vapors or fumes from this material at typical re-flow temperatures over 100°C may cause local irritation to the respiratory system. Rosin may cause occupational asthma. Lead fumes, when applicable may be harmful.

**Skin Contact:** May cause skin irritation or dermatitis. Rosin may cause skin 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:** Has been shown to increase incidence of sarcoma in animal tests.

**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.

**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. Signs and symptoms of exposure – anemia. Possible carcinogenic to humans.

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2 Mixture

Components	% wt	CAS Registry #/ EINECS#
TIN	*	7440-31-5/231-141-8
SILVER	*	7440-22-4/231-131-3
COPPER	*	7440-50-8 /231-159-6
LEAD	*	7439-92-1/231-100-4
BISMUTH	*	7440-69-9/231-177-4
ROSIN	3.0 - 6.0	65997-05-9
POLYGLYCOL ETHER	3.0 – 5.0	9038-95-3
PROPRIETARY ACTIVATORS	1.0 - 6.0	-

N.E. = Not established

\* See Alloy Table for breakdown of percentages of alloy mixtures

Ingredients are all listed even though they may not been categorized as hazardous.

**ALLOY TABLE**

%Metal mix with flux

<b>INDALLOY (METAL)</b>	<b>%COPPER Cu</b>	<b>%TIN Sn</b>	<b>%SILVER Ag</b>	<b>%BISMUTH Bi</b>	<b>%LEAD Pb</b>	<b>*RoHS 2 Compliance</b>
<b>100</b> (62.6Sn/37Pb/0.4Ag)	-	<b>52-57.6</b>	<b>0.33-0.37</b>	-	<b>30.7-34</b>	<b>No</b>
<b>104</b> (62Sn/36Pb/2Ag)	-	<b>51.5-57</b>	<b>1.7-1.8</b>	-	<b>29.9-33</b>	<b>No</b>
<b>106</b> (63Sn/37Pb)	-	<b>52-57</b>	-	-	<b>30.7-34</b>	<b>No</b>
<b>241</b> (SAC 387) (95.5Sn/3.8Ag/ 0.7Cu)	<b>0.58-0.64</b>	<b>79.3-87.9</b>	<b>3.2-3.5</b>	-	-	<b>Yes</b>
<b>246</b> (SAC 405) (95.5Sn/4Ag/0.5Cu)	<b>0.42-0.46</b>	<b>79.3-87.9</b>	<b>3.3-3.7</b>	-	-	<b>Yes</b>
<b>256</b> (SAC 305) 96.5Sn/3Ag/0.5Cu)	<b>0.45-0.46</b>	<b>85.9-88.8</b>	<b>2.67-2.76</b>	-	-	<b>Yes</b>
<b>256</b> (SAC305) (96.5Sn/3Ag/0.5Cu doped with 0.19% Ce)	<b>0.45-0.46</b>	<b>85.9-88.8</b>	<b>2.67-2.76</b>	-	-	<b>Yes</b>
<b>258</b> <b>(SAC105)</b> (98.5Sn1Ag/0.5Cu)	<b>0.42-0.46</b>	<b>81.8-90.6</b>	<b>0.83-0.92</b>	-	-	<b>Yes</b>
<b>260</b> <b>SACm 510</b> (98.5Sn/1Ag/0.5Cu/ Doped 0.05Mn)	<b>0.42-0.46</b>	<b>81.8-90.6</b>	<b>0.83-0.92</b>	-	-	<b>Yes</b>
<b>263</b> (99Sn/0.3Ag/0.7Cu)	<b>0.58-0.64</b>	<b>82-91</b>	<b>0.25-0.28</b>	-	-	<b>Yes</b>
<b>Non Standard Mix</b> (90.5Sn/7.5Bi/2Ag)	-	<b>75-83</b>	<b>1.7-1.8</b>	<b>6.2-6.9</b>	-	<b>Yes</b>
<b>Non Standard Mix</b> (94.25Sn/3Bi/2Ag/0.7 5Cu)	<b>0.62-0.69</b>	<b>78.2-86.71</b>	<b>1.7-1.8</b>	<b>2.5-2.8</b>	-	<b>Yes</b>
<b>Non Standard Mix</b> (92.3Sn/7Bi/0.7Cu)	<b>0.58-0.64</b>	<b>76.6-84.9</b>	-	<b>5.8-6.4</b>	-	<b>Yes</b>
<b>Non Standard Mix</b> (91.3Sn/7Bi/1Ag/0.7 Cu)	<b>0.58-0.64</b>	<b>75.8-84</b>	<b>0.83-0.92</b>	<b>5.8-6.4</b>	-	<b>Yes</b>
<b>Non Standard Mix</b> (75.5Sn/24Bi/0.5Cu)	<b>0.42-0.46</b>	<b>62.7-69.5</b>	-	<b>19.9-22</b>	-	<b>Yes</b>

Non Standard = special or custom blend of metal alloys

RoHS= Restriction of Hazardous Substances EU Directive 2011/65/EU

Some products listed above meet the definition of lead free. Product contains trace levels of lead and other metals.

Product does not contain any flame-retardants.

Other products contain lead. Review any exemption to determine if they apply.

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of 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.

### 4.2 Most important symptoms and effect, both acute and delayed:

Skin contact may cause irritation. Long term contact may cause dermatitis. Inhalation of decomposed rosin fume may cause irritation or occupational asthma. Exposure to metal fumes may cause irritation to the respiratory system. Exposure can cause eye irritation especially during fuming. When applicable use standard lead work practices to avoid exposure. Over exposure to lead may cause harm.

### 4.3 Indication of any immediate medical attention and special treatment needed:

No specific special treatment information is available on this mixture. Review data provided in this document to understand the hazards when working with the product. No other information is available at this time. When in doubt always seek medical advice, especially when over exposed to lead fumes.

## SECTION 5. FIRE FIGHTING MEASURES

**5.1 Extinguishing Media:** Use extinguishers appropriate for the surrounding fire conditions. Water, CO2, foam media.

**5.2 Special hazards arising from the substance or mixture:**  
May produce toxic fumes of carbon monoxide if burning or metal oxide fumes.

**5.3 Advice for Firefighters** Fire fighters must wear approved self-contained breathing apparatus and full protective clothing.

**5.4 Further information**  
Material product is not flammable. No other information is available.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures:

#### **For non-emergency personnel:**

Keep away from the spill. Remove sources of ignition. Keep exhaust ventilation system running. In the event of a fire evacuate area.

#### **For emergency responders:**

Wear safety glasses, gloves when cleaning up any spill. Other equipment may be necessary based on the immediate area and other chemicals unrelated to the product that may be in use. Adequate ventilation should be available. Keep unnecessary personnel away from area during clean up.

**6.2 Environmental Precautions:** Dispose contaminated cloth rags or paper towels following all applicable

governmental regulations. Material may have reclaim value. Material is non - hazardous. It however does contain metals

and organic chemicals which may not be suited for release to any body of water including drains. Lead containing material should follow proper regulatory requirements.

**6.3 Methods and material for containment and cleaning up:**

Spill or leak procedures: Using a spatula, scoop up paste and place in a plastic or glass jar and tightly cap. Remove traces of paste residue using cloth rags or paper towels moistened with ethyl or isopropyl alcohol.

**6.4 Reference to other sections:** See Section 8 for exposure levels. See Section 13 for waste disposal.

**SECTION 7. HANDLING AND STORAGE**

**7.1 Precautions For Safe Handling:** Keep containers tightly closed when not in use. Use care to avoid spills. Use only with production equipment specifically designed for use with solder paste. Wear appropriate personal protective equipment when working or handling solder paste. 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. When applicable follow standard lead work practices.

**7.2 Conditions for Safe Storage, including any incompatibilities:**

**Storage Precautions:** Store product in tightly capped original containers in a cool, dry area. Refer to product label and product data sheet for specific storage temperature requirements. Rotate stock to ensure use before expiration date.

**7.3 Specific End Use(s):** Soldering applications.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Control Parameters**

			<u>TWA</u>	<u>STEL</u>
		<u>CAS#/EINECS#</u>	mg/m3	mg/m3
<b>TIN</b>	*	7440-31-5/231-141-8		
		(UK)	2	4
		(Belgium)	2	-
		(Germany)	2	-
		(Netherlands)	2	-
		(Spain)	2	-
		(Poland)	2	-
<b>SILVER</b>	*	7440-22-4/231-131-3		
		(UK)	0.1	0.3
		(Belgium)	0.1	-
		(France)	0.1	-

		(Germany)	0.1	-
		(Netherlands)	0.1	-
		(Spain)	0.1	-
		(Poland)	0.05	-
<b>COPPER</b>	*	7440-50-8 /231-159-6		
		(UK)	0.2 (fume)	0.6(fume)
		(France)	2	0.2(fume)
		(Belgium)	1	-
			0.2(fume)	
		(Spain)	1	-
			0.2(fume)	
		(Portugal)	1	0.2(fume)
		(Netherlands)	0.1	-
		(Finland)	1	-
			0.1	
		(Denmark)	1	-
			0.1	
		(Austria)	1	4
			0.1(fume)	0.4
		(Switzerland)	0.1	0.2
		(Norway)	1	0.1
		(Ireland)	1	2
			0.2 (fume)	
		(Poland)	0.2	-
<b>LEAD</b>	*	7439-92-1/231-100-4		
		(UK)	0.15	-
		(France)	0.1	-
		(Spain)	0.15	-
		(Italy)	0.15	-
		(Portugal)	0.05	-
		(Finland)	0.1	-
		(Denmark)	0.05	-



		(Austria)		0.1	0.4
		(Switzerland)		0.1	0.8
		(Poland)		0.05	-
		(Norway)		0.05	-
		(Ireland)		0.15	-
<b>BISMUTH</b>	*	7440-69-9/231-177-4			
		(UK)		N.E.	N.E.
<b>ROSIN</b>	3.0 - 6.0	65997-05-9			
		(EU)	0.05	N.E.	0.15 (sensitiser)
<b>POLYGLYCOL ETHER</b>	3.0 – 5.0	9038-95-3	N.E.	N.E.	N.E.
<b>PROPRIETARY ACTIVATORS</b>	1.0 - 6.0	-	N.E.	N.E.	N.E.

N.E. = Not established

TWA = time weighted average

STEL = short term exposure limit

## 8.2 Exposure Controls

**Engineering Controls:** Use only with production equipment (such as stencil printers and re-flow furnaces) with adequate exhaust ventilation and other safety features specifically designed for use with solder paste. Control concentration of all components with established exposure limits so they are not exceeded. Use exhaust ventilation when heating product. Air emission control equipment may be necessary based on the local governmental requirements for contaminants entering the atmosphere. Emissions may contain metal fume, rosin and organic compounds.

### Personal protection:

**Eyes:** Chemical safety glasses/goggles. Face shield for splash hazards.

**Respiratory:** An approved or EU compliant CE marked air-purifying respirator with a fume/organic chemical cartridge is recommended under certain circumstances (i.e. when re-flowing manually on a plate instead of a ventilated re-flow furnace) where airborne concentrations are expected to be elevated or exceed exposure limits.

**Skin:** Compatible chemical resistant gloves. Recommend a nitrile disposable or other chemical glove.

**Other:** Lab coat, 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. Do not allow rags or paper towels contaminated with solder paste to accumulate in the work area. 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.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties:**

<b>Appearance:</b>	Grey colored solid paste	<b>Boiling Point/Range:</b>	Not determined
<b>Odor:</b>	Mild characteristic odor.	<b>Melting Point/Freezing Point:</b>	Not applicable
<b>Odor Threshold:</b>	Not established	<b>Evaporation Rate:</b>	Not applicable
<b>Specific Gravity:</b>	1 g/cc	<b>pH:</b>	4 – 8 (flux)
<b>Vapour Pressure:</b>	Not applicable.	<b>Solubility in Water:</b>	Insoluble (paste)
<b>Vapour Density:</b>	(air=1) Not applicable.	<b>Partition coefficient:</b>	Not established
<b>Relative Density:</b>	Not established	<b>Flammability:</b>	Not applicable, not flammable
<b>Flash Point:</b>	Not applicable	<b>Method:</b>	Not applicable
<b>Auto-ignition Temperature:</b>	Not applicable	<b>Flammable Limits:</b>	Limits not established
<b>UEL/LEL Limits:</b>	Not applicable	<b>Decomposition Temp:</b>	Not applicable
<b>Viscosity:</b>	Not established	<b>Explosive properties:</b>	Not applicable
<b>Oxidizing Properties:</b>	Not established		

**9.2 Other Information:** Above data for the whole mixture.

**SECTION 10. STABILITY AND REACTIVITY**

- 10.1 Reactivity:** Stable.
- 10.2 Chemical Stability:** Stable
- 10.3 Possibility of Hazardous Reactions:** Not established
- 10.4 Conditions To Avoid:** None known
- 10.5 Incompatible Materials:** Avoid contact with acids, bases or oxidizing agents.
- 10.6 Hazardous Decomposition / Combustion:** Harmful organic fumes and toxic oxide fumes may form at elevated temperatures. Metal oxide fumes.
- Hazardous Polymerization:** Will not occur.

**SECTION 11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects:**

<b><u>Acute toxicity:</u></b>	Not established	<b><u>Mutagenicity:</u></b>	Not established
<b><u>Irritation:</u></b>	Not established	<b><u>Toxicity for Reproduction:</u></b>	Not Established
<b><u>Corrosivity:</u></b>	Not applicable	<b><u>Absence of specific data:</u></b>	None available (not tested)
<b><u>Sensitization:</u></b>	Not available		
<b><u>Repeated dose toxicity:</u></b>	Not established		
<b><u>Carcinogenicity:</u></b>	Not established		
<b><u>Likely Routes of Entry:</u></b>	eyes (irritation) /skin (irritation or sensitization) /inhalation (irritation/sensitization/may be harmful) ingestion (may be harmful)		
<b><u>Interactive effects:</u></b>	None known		

**11.2 Symptoms related to the physical, chemical and toxicological characteristics:**

May cause irritation or sensitization by skin and inhalation. Inhalation of lead fume may be harmful. May cause lead poisoning or harm to the unborn child, when applicable for lead containing products.

**11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure:**

Exposure to rosin fume has been known to cause occupational asthma. Exposure to lead fume, if applicable, may cause harm by inhalation and ingestion. Chronic exposures to lead fume, if applicable, can cause potential harm to the developing fetus. Lead exposure can be toxic.

**Mixture verses substance information:** None known

**Other Information:**

**Carcinogenicity:** NTP: No (National Toxicity Program)

**Listing** OSHA: No (US Occupational Safety & Health Administration)

IARC: No ( International Agency for Research on Cancer)

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.

Bismuth – LD50 oral-rat 5,000 mg/kg

**SECTION 12. ECOLOGICAL INFORMATION**

Product mixtures not tested.

**12.1 Toxicity:** No information available

**12.2 Persistence and degradability:** No information available

**12.3 Bioaccumulative potential:** No information available

**12.4 Mobility in soil:** No information available

**12.5 Results of PBT and vPvB assessments:** No data is available

**12.6 Other adverse effects:** No information is available for mixture. Avoid release to environment.

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

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

**SECTION 13. DISPOSAL CONSIDERATION**

**13.1 Waste treatment 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.

**RoHS (Restriction of Hazardous Substances):** product mixtures are RoHS compliant because they are lead free. Product mixtures do not contain any PBB or PBDT brominated compounds. (2011/65/EU)  
Review alloy table for products.

**SECTION 14. TRANSPORT INFORMATION**

Transport in accordance with applicable regulations and requirements.

Solder Paste is non - hazardous.

Not regulated/non - hazardous under US DOT (United States Department of Transportation).

Not regulated/non - hazardous under international shipping requirements, all modes..

**14.1 UN name** None

**14.2 UN proper shipping name:** None

**14.3 Transport hazard class(s):** None

**14.4 Packing group:** None

**14.5 Environmental hazards:** None

**Special precautions for user:** None

**Transport in bulk according to Annex II of Marpol and the IBC Code:** Not applicable

Marine pollutant: No

**SECTION 15. REGULATORY INFORMATION**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

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.).

All ingredients are listed on the USEPA TSCA Inventory.

All ingredients are listed on EINECS. Note Rosin was recently listed under the No Longer Polymer List, Notification of New Chemical Substances in Accordance with Directive 67/548/EEC.

Safety data sheet was developed using EC 1907/2006 amended as of 20 May 2010 EU No 453/2010 and information as stated under regulation EC No 1272/2008 CLP Regulation. EC 2015/830

GHS = Global Harmonized System

CLP= Classification, labeling and packaging

Product does not contain any substances ozone depleting substances and therefore not subject to EC 2037/2000.

There are no specific regulations to this solder paste mixture.

**15.2 Chemical safety assessment:** None performed for mixture.

**SECTION 16. OTHER INFORMATION**

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

**Revised Date:** 5 SEPTEMBER 2018

**Prepared by:** Nancy Swarts, The Indium Corporation of America, nswarts@indium.com

**Approved by:** Nancy Swarts, The Indium Corporation of America

Changes provided on this SDS were based on the requirements of EU No. 453/2010 of May 20, 2010 regarding amendments to EC No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

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.