

INDIUM CORPORATION OF AMERICA ®\EUROPE®\ASIA-PACIFIC® INDIUM CORPORATION (SUZHOU) ®

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: INDALLOY WITH FLUXCAKE 809 (CW-809)

SDS Number: SDS-CW 5009 Revised Date: 11 MAY 2015

Product Use: Industrial Use - Flux cored wire for soldering applications. (See alloy table for metal alloy mix) SDS contains of alloy table of all metal mixtures with the same flux core. Review as some hazards may not be applicable.

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2. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY: Carcinogen listed in

⊕Eye ⊕Inhalation ⊕Skin ⊕Ingestion NTP IARC OSHA ⊕Not Listed

GHS:







Signal Word: Warning Hazard statement(s)

H303 May be harmful if swallowed
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 (lead)

H361 Suspected of damaging fertility or the unborn child (applicable to lead containing product)

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 effects (lead containing product)

EUH201A Warning! Contains lead (applicable only to the products listed that contain 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 mins)

Classification:

Acute toxicity. oral,- Category 4 (lead)

Specific target organ toxicity- repeated exposure - Category 2

Carcinogenicity (Category 2) (lead)

Reproductive toxicity (Category 2) (lead)

Acute aquatic toxicity – Category 1 for lead containing products Chronic aquatic toxicity – Category 1 for lead containing products

For product containing lead the Acute and Chronic Classification is (Category 2)

Skin sensitizer- Category 1B

Respiratory sensitizer- Category1B

POTENTIAL HEALTH EFFECTS:

Eye Contact: Can be 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 be harmful if swallowed.

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

may be harmful. Rosin may cause occupational asthma.

Skin Contact: May cause skin irritation or dermatitis.

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.

<u>TIN</u>: Prolonged inhalation of fume may result in lung complications.

<u>COPPER:</u> 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.

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

for human consumption.

WARNING: This product contains chemicals known to the State of California to cause cancer and birth

defects or other reproductive harm. (lead).

WARNING: This product may contain lead. Lead may be harmful to your health. US Federal law prohibits the use

of leaded solders in making of joints in any private or public potable (drinking) water supply system.

Keep out of the reach of children

3. COMPOSITION / INFORMATION ON INGREDIENTS							
Components %		CAS Registry #/EINECS#	PEL mg/m³	TLV-TWA mg/m³	TLV-STEL mg/m³		
TIN	*	7440-31-5/231-141-8					
		(US)	2	2	-		
		(EU)	-	2	4		
		(Canada)	-	2	4		
		(Singapore)	2	-	-		
SILVER	*	7440-22-4/231-131-3					
		(US)	0.01	0.1	-		
		(EU)	-	0.1	-		

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		(Canada)	-	0.1	0.3
		(Singapore)	0.1	-	-
		(Mexico)	-	0.1	-
COPPER	*	7440-50-8/231-159-6			
		(US)	0.1 (fume)	0.2 (fume)	-
		(EU)	-	0.2 (fume)	-
		(Canada)	-	0.2 (fume)	0.6 (fume)
		(Singapore)	0.2(fume)	-	-
		(Mexico)	-	0.2(fume)	2
		(China)	-	0.2(fume)	0.6
LEAD	*	7439-92-1/231-100-4			
		(US)	0.05	0.05	-
		(EU)	-	0.15	-
		(Canada)	0.05	0.05	-
		(Singapore)	0.15	-	-
		(Mexico)	N.E.	0.15	-
		(China)	-	0.05(dust) 0.03(fume)	- -
ROSIN MIX	1.0-4.0	65997-05-9	N.E.	N.E.	N.E.
		(EU)	0.05	N.E.	0.15 (sensitiser)

Symbol: Xn Risk Phrases: R20/22, R36/37/38, R42/43

N.E. = Not established

* See alloy table

ALLOY TABLE

Metal alloy mixed with rosin as flux cored wire

INDALLOY	LEAD Pb	TIN Sn	Copper Cu	Silver Ag	Specific Gravity (as metal)	RoHS 2 Compliance
106 (Sn63/Pb37)	35.5-36.6	60-62.4	-	-	8.40	No
256 (SAC 305) (96.5Sn/3Ag/0.5Cu)	-	92.6-95.5	0.48-0.5	2.88-2.97	7.40	Yes

2011/65/EU- RoHS 2 Compliance

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: >100 C 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 Firefighters must wear NIOSH approved self-contained breathing apparatus and full

Procedures: 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.

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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 particulate 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. Follow applicable lead work practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:Solid metal - wireBoiling Point:Not applicable.Odor:OdorlessMelting Point:See table

Specific Gravity:See tablepH:Not applicableVapor Pressure:Not establishedSolubility in Water:Insoluble

Vapor Density: (air=1) Not applicable.

10. STABILITY AND REACTIVITY

General: Stable.

Conditions to Avoid: Not established.

Incompatible Materials: Avoid contact with acids, bases or oxidizing agents.

Hazardous Decomposition / Harmful organic fumes and toxic oxide fumes may form at elevated

Combustion: temperatures.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity: NTP: No

OSHA: CFR 1910.1025

IARC: Yes Lead and lead compounds are listed as possible carcinogens.

LD50: Not established. **LC50:** Not established.

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

12. ECOLOGICAL INFORMATION

Protect not tested. Lead can be harmful to the 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 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 all shipping regulations.

UN - none

Marine Pollutant: No

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 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-2000 and NOM-010-STPS-1999.

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



Canadian WHMIS: D2A-Materials Causing Other Toxic Effects-Very Toxic Material (Chronic). (lead) D2B Materials Causing Other Toxic Effects -irritant

SARA 313 Listing - 40 CFR 372.65 Silver Copper Lead

All ingredients are listed on the EPA TSCA Inventory.

EPA Genetic Toxicology Program - Lead CAS# 7439-92-1

California Prop 65 Safe Drinking Water Standard: Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (lead)

EC Classification, Packaging and Labeling Requirements:

Symbol and Hazard Classification of Product

X Hazard Code (lead) T

Risk Phrases:

R36/37/38 Irritating to eyes, respiratory system and skin

R42/43 May cause sensitization by inhalation and skin contact

R20/22 Harmful by inhalation and if swallowed
R33 Danger of cumulative effects (lead)

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R40 Limited evidence of carcinogenic effect (lead)

R48 Danger of serious damage to health by prolonged exposure (lead)

R61 May cause harm to the unborn child (lead)

R50/53 Very toxic to aquatic organisms and may cause long-term effects in the aquatic environment (lead)

Safety Phrases:

S20/21 When using do not eat, drink or smoke

S23 Do not breathe fumes

S24/25 Avoid contact with skin and eyes

S28 After contact with skin wash immediately with plenty of soap and water

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

S62 If swallowed, do not induce vomiting seek medical advice immediately and show container or label

S7 Keep container tightly closed

16. OTHER INFORMATION

HMIS Hazard Rating: Health: 2

Fire: 1 Physical Hazard: 0

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