

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

# SAFETY DATA SHEET

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** BRAZE ALLOY: INDALLOY B962 (SILVER)

SDS Number: SDS-5979 Revised Date: 25 NOVEMBER 2014

**Product Use:** INDUSTRIAL USE – Metal alloy silver. Use is strictly based on the individual customer needs

and requirements.

#### **MANUFACTURER:**

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## 2. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY: CARCINOGEN LISTED IN:

\*\*Eye \*\*Inhalation \*\*Skin \*\*Ingestion NTP IARC OSHA \*\*Not Listed

GHS:

Precautionary Statement(s)

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)

#### POTENTIAL HEALTH EFFECTS:

Eye Contact: May cause irritation.

**Ingestion:** May cause irritation.

**Inhalation:** Inhalation of vapors may cause irritation.

**Skin Contact:** Contact may cause irritation.

**Chronic:** 

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.

WARNING: This product contains a chemical known to the State of California to cause cancer and/or

birth defects (or other reproductive harm). (trace levels of lead). This is

applicable within the State of California. This statement is not used outside of California.

NOTE: The Indium Corporation does not recommend, manufacturer, market or endorse any of it's

products for human consumption.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	% wt	CAS Registry #/EINECS#	<b>PEL</b> mg/m³	TLV-TWA mg/m³	TLV-STEL mg/m³	
SILVER	100	7440-22-4/231-131-3				
		(US)	0.01	0.1	-	
		(EU)	-	0.1	-	
		(Canada)	-	0.1	0.3	
		(Mexico)	0.1	-	-	
		(Singapore)	0.1	-	-	

#### PRODUCT DOES NOT CONTAIN ANY REPORTABLE EU SUBSTANCES OF VERY HIGH CONCERN (SVHC)

N.E. = Not established

#### 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.

If patient is conscious, ONLY induce vomiting as directed by trained personnel. NEVER give Ingestion:

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.

Remove contaminated clothing. Wash affected area with soap and water. Wash clothing before Skin Contact:

reuse. If irritation persists, obtain medical attention.

# 5. FIRE FIGHTING MEASURES

Flash Point: Method: Not established. Not established.

Auto-ignition Temperature: Not established.

Flammable Limits: Limits not established. Massive metal is not flammable.

**Extinguishing Media:** Use extinguishers appropriate for the surrounding fire conditions. Do Not Direct Water

at or onto the heated metal.

**Special Fire Fighting** Firefighters must wear NIOSH approved self-contained breathing apparatus and full **Procedures:** 

protective clothing.

Thermal decomposition can lead to release of irritating gases and vapors.

#### 6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Solid metal should be clean up without generating dust. Do not sweep. Dispose of following all Federal, State and Local regulations. Metal may have reclaim value. Wear personal protective equipment and avoid breathing any dust or fume. Do not discharge to any drains. RQ= 1000 lbs (454 kg).

#### 7. HANDLING AND STORAGE

Handling Precautions:

User should review their own workplace situations and uses and determine the best guidelines for handling. PPE should be assessed based on the particular use or uses. Melting or grinding of metal alloy should be reviewed. Ventilation is recommended when there is a potential for work place exposures to metal fume or particulate. Permissible exposure levels in high fume or particulate tasks should be assessed so that they are not exceeded. Ensure engineering controls are used to protect the worker.

Safety glasses or goggles shall be worn. A face shield should be added when handling metal where there is a potential for splash hazards. Additional personal protective equipment should be used when handling molten metals: face shield, hot gloves for handling hot metals, sleeve protector for splash hazards if handling large volumes where there is a potential for splash and burns from hot metal. Additional protection includes apron.

Keep unauthorized personnel away when handling molten metals.

Exhaust ventilation should be provided for any metal fume when heating is being conducted.

Store materials in the proper container. Hot metals should be placed into a compatible container.

Storage Precautions: Store product in a cool, dry area away from incompatible materials (metals and moisture). Close container when not in use, where applicable.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Exhaust ventilation is recommended to control any air contaminants and keep

exposures as low as possible.

Personal protection:

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

Respirator: An authority approved or compliant marked air-purifying respirator with a fume/dust chemical

cartridge is recommended under certain circumstances where airborne concentrations are expected

to be elevated.

Gloves-leather or impervious (vinyl) type. Skin:

Heat resistant gloves if handling hot metal. Safety type boots. Personal protective equipment is

recommended when working with molten metal to avoid burns.

Lab coat, safety shower and eyewash fountain in work area. Avoid the use of contact lenses. Other:

Work/Hygienic Maintain good housekeeping. Clean up spills immediately. Good personal hygiene is essential. **Practices:** 

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

**Appearance:** Solid Metal Form **Boiling Point:** 2212 C (4013 F)

Odor:OdorlessMelting Point:961 C (1763F)Vapor Pressure:100 mm Hg @ 1865 CSolubility in Water:InsolubleVapor Density:Not availableMolecular Weight:107.8682

Specific Gravity: 10.50

#### 10. STABILITY AND REACTIVITY

General: Stable.

Conditions to Avoid: No data available

Incompatible Materials: Oxygen/strong acids/strong bases

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**Hazardous Decomposition /** 

Combustion:

Silver/silver oxides

Hazardous Polymerization: Will not occur.

#### 11.TOXICOLOGICAL INFORMATION

Carcinogenicity: National Toxicity Program (NTP): No

Occupational Safety & Health Administration (OSHA): No U.N. International Agency for Research on Cancer (IARC): No

RTECS: Silver: VW3500000 LD50- Oral-rat-male - >5,000 mg/kg.

# 12. ECOLOGICAL INFORMATION

No data available

#### 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. Non-hazardous under shipping.

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).

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

Canadian WHMIS: D2A Silver appears on the Canadian Ingredient Disclosure List and DSL List.

This product has been classified in accordance with the guidelines set by the Dept. of Industrial Health of the Republic of Singapore.

California PROP 65 (Safe Drinking Water Standard): WARNING: This product contains a chemical known to the State of California to cause cancer and/or birth defects (or other reproductive harm). (trace lead). Applicable within the state.

SARA 313 Listing - 40 CFR 372.65: Silver

All ingredients are listed on the EPA TSCA Inventory, Philippines Inventory, Japan Existing and New Chemical Substances, China Inventory of Existing Chemical Substances, Canadian Domestic Substances List

EC Classification, Packaging and Labeling Requirements:

Symbol and Hazard Classification of Product

#### **Safety Phrases:**

S20/21	When using do not eat, drink or smoke
S22	Do not breathe dust
S23	Do not breathe fumes
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

# **16. OTHER INFORMATION**

HMIS Hazard Rating: Health: 0

Fire: 0 Physical Hazard: 0

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