

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

# **SAFETY DATA SHEET**

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: INDALLOY 128 (TIN)

SDS Number: SDS-4168 Revised Date: 24 JANUARY 2017

Product Use: INDUSTRIAL USE: PURE METAL TIN (Sn)

**MANUFACTURER:** 

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#### 2. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY:

**CARCINOGEN LISTED IN:** 

 $\sqrt{\text{Eye}}$   $\sqrt{\text{Inhalation}}$   $\sqrt{\text{Skin}}$   $\sqrt{\text{Ingestion}}$  NTP IARC OSHA  $\sqrt{\text{Not Listed}}$ 

**GHS** 



Hazard statement(s)

H319 Causes serious eye irritation
H335 May cause respiratory irritation

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:

Eye irritation- Category 2A

Specific target organ toxicity-single exposure (Category 3), respiratory system

#### **POTENTIAL HEALTH EFFECTS:**

Eye Contact: May cause irritation. Severe eye damage may result from hot molten metal being splashed into the

eyes.

**Ingestion:** May cause irritation.

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

**Skin Contact:** Hot molten metal may cause burns to the skin. May cause irritation.

Chronic:

**TIN:** Has been shown to increase incidence of sarcoma in animal tests.

NOTES:

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)

The Indium Corporation does not recommend, manufacturer, market or endorse any of its

products for human consumption.

			TION ON INGREDIENT			
(US) 2 2 - (EU) - 2 4	omponents	% wt	CAS Registry #/EINECS	<b>PEL</b> mg/m³	TLV-TWA mg/m³	TLV-STEL mg/m³
(EU) - 2 4	TIN	100	7440-31-5/231-141-8			
			(US)	2	2	-
(Canada) - 2 4			(EU)	-	2	4
			(Canada)	-	2	4
(Singapore) 2			(Singapore)	2	-	-

#### 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. Massive metal is not flammable; however dust or powder may

be flammable/combustible.

**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: Contain spill. If molten, cool to allow metal to solidify. If a solid metal, wear gloves, pick

up and return to process. If dust, wear recommended personal protective equipment. DO NOT SWEEP. Use a vacuum, place in barrels and return to process if applicable. Otherwise, dispose of following all Federal, State and Local regulations. Metal may have

reclaim value.

#### 7. HANDLING AND STORAGE

**Handling** Only dry metals should be added to molten bath. If working with molten metals, or exposed to

**Precautions:** fume or dust, use appropriate personal protective equipment.

**Storage Precautions:** Store product in a cool, dry area away from incompatible materials.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation is recommended to control any air contaminants. Control

concentration of all components so that their exposure levels are not exceeded.

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 chemical

cartridge is recommended under certain circumstances where airborne concentrations are expected

to be elevated.

Skin: Gloves-leather or impervious (vinyl) type. Heat resistant gloves if handling hot metal. Safety type

boots. Personal protective equipment is recommended when working with molten metal to avoid

burns.

Other: Lab coat, safety shower and eye-wash/shower fountain in work area. Avoid the use of contact lenses

in high fume areas.

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/powder **Boiling Point:** 2270C (4118F) Odor: Odorless **Melting Point:** 231.9 C (449.4F) Relative density: 7.31 g/cm3 pH: Not applicable Solubility in Water: **Vapor Pressure:** Not applicable. Insoluble Vapor Density: (air=1) Not applicable. Molecular weight: 118.71 g/mol

# 10. STABILITY AND REACTIVITY

General: Stable.

Conditions to Avoid: Not established.

Incompatible Materials: Strong oxidizing agents, sulphur compounds, strong bases, halogens, strong acids

Hazardous Decomposition / Harmful toxic oxide fumes may form at elevated

Combustion: temperatures.

Hazardous Polymerization: Will not occur.

#### 11.TOXICOLOGICAL INFORMATION

Carcinogenicity: National Toxicity Program (NTP):

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

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

RTECS#

Tin: XP7320000

# 12. ECOLOGICAL INFORMATION

No information available on mixture.

#### 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

No

environmental regulations.

### 14. TRANSPORT INFORMATION

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

North America Emergency Guide Book – Not applicable

# 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.).

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 levels lead)

SARA 313 Listing - 40 CFR 372.65: None

All ingredients are listed on the EPA TSCA Inventory.

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

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

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, GBZ2-2007.

# 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).

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

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#### 16. OTHER INFORMATION

HMIS Hazard Rating: Health:

Fire: 0 Reactivity: 0

Revised Date: 24 JANUARY 2017

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Approved by: Nancy Swarts, Indium Corporation of America

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