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Material Safety Data Sheet

Indium, powder MSDS

Section 1 - Chemical Product and Company Identification

Product Name: Indium, powder

Molecular formula: In

CAS No.: 7440-74-6

EC-No.: 231-180-0

Data No.: MSDS-Inpowder-160524

Manufacturer Information

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Section 2 - Composition, Information on Ingredients

Composition:

Name	CAS No.	EC-No.	%by weight
Indium, powder	7440-74-6	231-180-0	100

Toxicological Data on Ingredients: Not applicable.

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! Flammable solid. Harmful if swallowed, inhaled, or absorbed through the skin. May cause eye, skin, and respiratory tract irritation. Target Organs: None known.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation. Harmful if absorbed through the skin.

Ingestion: Harmful if swallowed. May cause irritation of the digestive tract.

Inhalation: Harmful if inhaled. May cause respiratory tract irritation.

Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do not induce vomiting. Get medical aid immediately. Call a poison control center.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Section 5 - Health Hazards Identification -----

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire. Flammable solid.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits: Not available

Lower: Not available

Explosion Limits: Not available

Upper: Not available

NFPA Rating: health: 2; flammability: 3; instability: 0;

Section 6 - Accidental Release Measures -----

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Avoid generating dusty conditions. Remove all sources of ignition. Use a spark-proof tool. Do not let this chemical enter the environment.

Section 7 - Handling and Storage -----

Handling: Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharges. Keep away from heat, sparks and flame. Do not ingest or inhale. Use only in a chemical fume hood.

Storage: Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area.

Section 8 - Exposure Controls, Personal Protection -----

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Indium, powder	0.1 mg/m ³	0.1 mg/m ³ TWA	none listed

OSHA Vacated PELs: Indium, powder: 0.1 mg/m³ TWA

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties -----

Physical State: Powder

Color: grey

Odor: None reported.

pH: Not available

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: 2000 deg C @ 760 mm Hg (3,632.00 F)

Freezing/Melting Point: 156 deg C (312.80 F)

Decomposition Temperature: Not available

Solubility in water: insoluble

Specific Gravity/Density: 7.300

Molecular Formula: In

Molecular Weight: 114.82

Section 10 - Stability and Reactivity -----

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, ignition sources, dust generation, excess heat.

Incompatibilities with Other Materials Strong oxidizing agents, strong acids, sulfur.

Hazardous Decomposition Products No data available.

Hazardous Polymerization Will not occur.

Section 11 - Toxicological Information -----

RTECS#: CAS# 7440-74-6: NL1050000

LD50/LC50: RTECS: Not available.

Carcinogenicity: Indium, powder-Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

Section 12 - Ecological Information -----

Other: Do not empty into drains.

Section 13 - Disposal Considerations -----

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information -----

DOT Classification: CLASS 4.1: Flammable solid.

Identification: : Metal Powder, Flammable, n.o.s.(Indium Powder) : UN3089 PG: III

Special Provisions for Transport: Not available.

Section 15 - Regulatory Information -----

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN F

Risk Phrases:

R 11 Highly flammable.

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

Safety Phrases:

S 16 Keep away from sources of ignition - No smoking.

S 36/37 Wear suitable protective clothing and gloves.

WGK (Water Danger/Protection)

CAS# 7440-74-6: Not available

Canada

CAS# 7440-74-6 is listed on Canada's DSL List

Canadian WHMIS Classifications: B4, D1B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations. CAS# 7440-74-6 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 7440-74-6 is listed on the TSCA

Inventory.

Section 16 - Additional Information -----

References: based on the present state of our knowledge and is to describe the product with reference to the safety measures that must be taken

Other Special Considerations: Not available.

Created: 10/10/2011

Last Updated: 24/05/2016

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