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MATERIAL SAFETY DATA SHEET

Section 1- PRODUCT IDENTIFICATION

COMPOSITION In2O3	PRODUCT NAME Indium Oxide
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Section 2- HAZARDOUS INGREDIENTS

Note: Products under normal conditions do not represent an inhalation, ingestion or contact health hazard.

MATERIAL OR COMPONENT	CAS NUMBER	WT%	EXPOSURE LIMITS	
			OSHA PEL (Mg/M3)	ACGIH TLV(MG/M3)
In2O3	1312-43-2	0-100	NA	0.1mg/m³

Section 3- PHYSICAL DATA

MATERIAL IS (AT NORMAL CONDITIONS) <input type="checkbox"/> Liquid <input type="checkbox"/> Solid <input type="checkbox"/> Gas <input type="checkbox"/> Other	APPEARANCE AND ODOR Yellow-green powder & pieces, no odor
MELTING POINT (BASE METAL) 850° C	SPECIFIC GRAVITY 7.18g/cc

Section 4- FIRE AND EXPLOSION

Flash Point (Method Used) N/A	Flammable Limits Non-flammable	LEL N.A.	UEL N.A.
EXTINGUISHING MEDIA Use suitable agent for surrounding material and type of fire.			
SPECIAL FIRED FIGHTING PROCEDURES Firefighters must wear full face, self contained breathing apparatus with full protective clothing to prevent contact with skin and eyes.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Indium oxide may emit toxic fumes if involved in a fire.			

Section 5- REACTIVITY DATA

STABILITY Stable	INCOMPATABILITY (MATERIALS TO AVOID) None
CONDITIONS TO AVOID N/A	
HAZARDOUS DECOMPOISTION PRODUCTS None Recorded	

Section 6- HEALTH HAZARD GUIDE

MAJOR EXPOSURE HAZARD

Inhalation Skin Skin Absorption Eye Contact Ingestion

EFFECTS OF OVEREXPOSURE

Indium Oxide is a poison by subcutaneous route. It affects the liver, heart, kidneys and blood. Inhalation of indium compounds may cause damage to the respiratory system. Hydrated indium oxide is a poison by intravenous route.

INHALATION: Acute: May cause irritation to the mucous membranes and damage to the respiratory tract. Chronic: May cause pneumonitis.

INGESTION: Acute: May cause irritation to the gastrointestinal tract. Chronic: May affect the heart, liver, kidneys and blood.

SKIN: Acute: May cause irritation. Chronic: N/A

EYES: Acute: May cause irritation and redness: Chronic: N/A

EMERGENCY & FIRST AID PROCEDURES

INHALATION: Remove from exposed area to fresh air immediately. Give oxygen if breathing is difficult.

INGESTION: Give 1-2 glasses of milk or water to induce vomiting.

SKIN CONTACT: Remove contaminated clothing. Brush material off skin. Wash affected area with soap and water.

EYES: Flush with water lifting upper and lower eyelids.

Section 7- SPILL OR LEAK PROCEDURES

SPILL OR LEAK PROCUDRES

Wear appropriate respiratory and protective equipment. Isolate spill area and provide ventilation. Vacuum up the spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container. Avoid raising dust.

WASTE DISPOSAL METHODS

Dispose in accordance with local, state and federal regulations.

Section 8- SPECIAL PROTECTION

RESPIRATORY

Use NIOSH/MSHA approved respirator.

VENTILATION

Local exhaust: To maintain concentration at or below the TLV. Mechanical (general) recommended.

EYE PROTECTION & PROTECTIVE CLOTHING

Wear safety glasses and rubber gloves.

Section 9- SPECIAL PRECAUTIONS

Control of substances hazardous to health regulations EN40 Occupational Exposure Limits.

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