

# MATERIAL SAFETY DATA SHEET

## CHEMAT TECHNOLOGY INC.

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### IDENTIFICATION

**CHEMICAL NAME:** Polymer for Indium Oxide  
**CATALOG NUMBER:** INO9202  
**TSCA:** not listed in TSCA inventory  
**CHEMICAL FAMILY:** Polymeric metal organic oxoalkoxides

### HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS:	%	
Title compound	70-80	<b>ACGIH(TLV):</b> No data <b>OSHA/PEL:</b> No data
Isopropanol, CAS#: 67-63-0	~10	<b>ACGIH(TLV):</b> 400ppm <b>OSHA/PEL:</b> 400ppm
Toluene, CAS#: 108-88-3	~10	<b>ACGIH(TLV):</b> 50ppm <b>OSHA/PEL:</b> 200ppm

### PHYSICAL DATA

**APPEARANCE AND ODOR:** Light brown, viscous liquid  
**MELTING POINT:** No data                      **BOILING POINT:** No data  
**VAPOR PRESSURE:** No data                      **SPECIFIC GRAVITY:** No data  
**SOLUBILITY IN WATER:** Hydrolyzes in water

### FIRE HAZARD

**FLASH POINT:** No data  
**AUTOIGNITION TEMPERATURE:** No data  
**EXTINGUISHING MEDIA:** Use carbon dioxide or dry chemical extinguishing agents. Water may be used to keep fire exposed containers cool.  
**SPECIAL FIRE FIGHTING PROCEDURES:** If involved in a fire or heated to high temperatures the material may burn. Burning material may release toxic and corrosive fumes. Use normal fire fighting procedures which include wearing NIOSH/MSHA approved self-contained breathing apparatus, flame, and chemical resistant clothing; hats, boots, and gloves. Leave the area unless fitted with a self-contained breathing apparatus and fire protective clothing..  
**UNUSUAL FIRE OR EXPLOSION HAZARDS:** No unusual fire or explosion hazards.

-----**HEALTH HAZARD**-----

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**MODE OF ENTRY:**

**INHALATION:** No  
**SKIN CONTACT:** Yes  
**EYE CONTACT:** Yes  
**INGESTION:** Yes

**CARCINOGENICITY:**

**NTP:** Not known  
**IARC:** Not known  
**OSHA:** Not known

**EFFECTS OF OVEREXPOSURE:** No specific information on toxicity or effects of overexposure. If the material is burning, indium oxides may result. Indium, when injected into animals via intraperitoneal or intravenous, is found to be highly toxic. It affects the liver, heart, kidneys, and the blood. Toxicity is based on animal experiments.

**EMERGENCY AND FIRST AID PROCEDURES:**

**SKIN CONTACT:** Dissolve with hexane and wash the affected area with soap and water for at least 15 minutes.  
**EYE CONTACT:** Seek immediate medical attention.  
**INGESTION:** Seek immediate medical attention.

-----**REACTIVITY DATA**-----

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**STABILITY:** Stable.

**CONDITIONS TO AVOID:** Contact with ignition source or heat.

**INCOMPATIBILITY:** Hydrolyzes in water

**HAZARDOUS DECOMPOSITION PRODUCTS:** Indium oxides, CO, CO<sub>2</sub>, and organic fumes

**HAZARDOUS POLYMERIZATION:** No data

-----**ENVIRONMENTAL INFORMATION**-----

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**SPILL OR LEAKAGE PROCEDURES:** Wearing full protective equipment, eliminate all sources of ignition. Dissolve in hexane and wash with water. Sweep up the mixture and dispose of properly.

**WASTE DISPOSAL:** Consult state, local, or federal EPA regulations for proper disposal.

-----**PROTECTION AND PRECAUTIONS**-----

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**VENTILATION REQUIREMENTS:** None

**RESPIRATORY PROTECTION:** None

**PROTECTIVE GLOVES:** Rubber or latex

**EYE/FACE PROTECTION:** ANSI approved safety goggles

**HANDLING AND STORAGE:** Keep away from heat.

**OTHER PRECAUTIONS:** The material will hydrolyze with water. Lab coat and apron, chemical resistant coveralls, eyewash capable of sustained flushing, and hygienic facilities for washing.

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