



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

**SAFETY DATA SHEET**

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** 16-2205 THINNER

**SDS Number:** SDS-4236

**Revised Date:** 8 DECEMBER 2014

**Product Use:** INDUSTRIAL USE - THINNER

**MANUFACTURER:**

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## 2. HAZARDS IDENTIFICATION

### PRIMARY ROUTES OF ENTRY:

Eye   
 Inhalation   
 Skin   
 Ingestion   
 NTP   
 IARC   
 OSHA   
 Not Listed

### Carcinogen listed in

GHS:



Signal Word: Danger

### Hazard statement(s)

- H225 Highly flammable liquid and vapor
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H411 Toxic to aquatic life with long lasting effects (isobutyl alcohol)

### Precautionary statement(s)

- P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
- P233 Keep container tightly closed
- P240 Ground/Bond container and receiving equipment
- P241 Use explosion-proof electrical/ventilating/lightening/equipment
- P242 Use only non- sparking tools
- 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:

Flammable Liquid – Category 2

Eye irritation – Category 2A

Specific target organ toxicity- single exposure – Category 3- central nervous system, respiratory system

### POTENTIAL HEALTH EFFECTS:

- Eye Contact:** Vapors may be irritating, liquid may damage eye tissue. Risk of serious eye damage.
- Ingestion:** May cause persistent nausea, vomiting and abdominal pain.
- Inhalation:** Vapor may cause headaches, drowsiness and or dizziness.
- Skin Contact:** Prolonged contact may cause irritation and dermatitis.
- Chronic:** Not established. Target organs: nerves/liver

**NOTE:** The Indium Corporation does not recommend, manufacture, market or endorse any of its products for human consumption.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	% wt	CAS Registry #	PEL mg/m <sup>3</sup>	TLV-TWA mg/m <sup>3</sup>	TLV-STEL mg/m <sup>3</sup>
ISOPROPANOL (propan-2-ol)	70-75	67-63-0 (US)	980	983	1225
		(EU)	-	999	1250
		(Canada)	-	983	1228
		(Mexico)	980	-	1225
		(Singapore)	983	-	1230
		(China)	-	350	700
ISOBUTYL ALCOHOL (2-methylpropan-1-ol)	25-30	78-83-1(US)	300	152	-
		(EU)	-	154	231
		(Canada)	-	152	227
		(Mexico)	-	150	225
		(Singapore)	152	-	-

Symbol: XI, F

N.E. = Not established

Risk Phrases: R36/37/38, R11

EU = European Exposure Limits

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

### 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:** 13°C (55°F)      **Method:** Closed Cup
- Auto-ignition Temperature:** N/A
- Flammable Limits:** Upper: 12; Lower 1.6
- Extinguishing Media:** Dry chemical, Water or CO<sub>2</sub>. Use extinguishers appropriate for the surrounding fire

conditions.

**Special Fire Fighting Procedures:**

Wear protective clothing and self contained breathing apparatus. Use water to cool fire exposed containers. Flammable vapors may travel great distances to ignition source and flash back.

## 6. ACCIDENTAL RELEASE MEASURES

**Spill or Leak Procedures:** DO NOT allow material to enter sewer system or waterway. Wear personal protective equipment. Eliminate sources of ignition. Ventilate area in accordance with regulations. Dispose of following all Federal, State and Local regulations.

## 7. HANDLING AND STORAGE

**Handling Precautions:** Keep containers tightly closed when not in use. Use care to avoid spills. Wear personal protective equipment. Ground containers.

**Storage Precautions:** Store product in tightly capped original containers in a cool, dry area. Refer to product label for specific storage temperature requirements. Rotate stock to ensure use before expiration date on the label. Store away from heat source or flame.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Face velocity >2.1 cubic feet/minute in confined areas. Exhaust ventilation recommended. Recommend personal protective equipment, if ventilation equipment is not available or is not adequate.

**Personal protection:**

**Eyes:** Chemical safety glasses/goggles. Face shield for splash hazards.

**Respirator:** An authority approved or compliant marked air-purifying respirator with a fume/organic chemical cartridge is recommended where airborne concentrations are expected to be elevated.

**Skin:** Compatible chemical resistant gloves. Use gloves such as nitrile, which are compatible with alcohols.

**Other:** Lab coat, eye-wash fountain in work area. Avoid the use of contact lenses in high fume areas.

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

<b>Appearance:</b>	Colorless	<b>Boiling Point:</b>	81°C (177°F)
<b>Odor:</b>	Alcohol odor.	<b>Evaporation Rate:</b>	1.45
<b>Specific Gravity:</b>	0.795 @ 60° F	<b>pH:</b>	Neutral
<b>Vapor Pressure:</b>	26 mm HG @68 F	<b>Solubility in Water:</b>	Soluble
<b>Vapor Density:</b>	2.2 (air=1)	<b>% Volatiles by volume:</b>	100

**10. STABILITY AND REACTIVITY**

**General:** Stable.  
**Conditions to Avoid:** Direct heat, open flames and storage in aluminum.  
**Incompatible Materials:** Anhydrides, halogens, aluminum, oxidizing agents  
**Hazardous Decomposition / Combustion:** No information available.  
**Hazardous Polymerization:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**Carcinogenicity:** National Toxicity Program **NTP:** No  
 Occupational Safety & Health Administration **OSHA:** No  
 International Agency for Research on Cancer **IARC:** No  
**LD50:** Not established. **LC50:** Not established.

IPA: NIOSH RTECS – NT8050000  
 Oral rat LD50 - 4396 mg/kg  
 Dermal rat LD50 – 12800 mg/kg  
 Dermal rabbit – 12870 mg/kg  
 Inhalation rat – 72.6 mg/l 4 h

Isobutyl alcohol- LD50 Oral – rat – 2,460 mg/kg  
 LD 50 dermal- rabbit – 3,400 mg/kg  
 LD50 Intraperitoneal –mouse-544 mg/kg  
 RTECS: NP9625000

**12. ECOLOGICAL INFORMATION**

Product not tested.

IPA: Freshwater Algae – 1000 mg/l EC50 >72h  
 Freshwater Fish – 1400000 ug/l LC50 96h  
 Water Flea – 13299 mg/l EC50 48 h

**13. DISPOSAL CONSIDERATION**

**Waste Disposal Method:** Dispose of in accordance with all Federal, State and Local environmental regulations.

## 14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements.

UN1987, Alcohols, N.O.S., 3, PG II (isopropanol, isobutyl alcohol)

North American Emergency Guide Page: 127



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 ET. SEQ.).

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

Canadian WHMIS: Class B Division 2 Flammable, D2B Toxic Material Causing Other Toxic Effects (eye irritation in animals).



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

This product has been classified in accordance with Mexican regulations: NOM-018-STPS-2000 and NOM-010-STPS-1999.

This product has been classified using the Chinese Occupational Exposure Limit for Hazardous Agents in the Workplace, GBZ2-2002.

SARA 313 Listing - 40 CFR 372.65: None

All ingredients are listed on the EPA TSCA Inventory.

EC Classification, Packaging and Labeling Requirements:

Symbol and Hazard Classification of Product

XI,F

### Risk Phrases:

R36/37/38 Irritating to eyes, respiratory system and skin

R 11 Highly Flammable

R67 Vapors may cause drowsiness and dizziness

### Safety Phrases:

S16 Keep away from sources of ignition - "No Smoking"

S20/21	When using do not eat, drink or smoke
S23	Do not breathe fumes
S24/25	Avoid contact with skin and eyes
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
S7	Keep container tightly closed

## 16. OTHER INFORMATION

**HMIS Hazard Rating:**

<b>Health:</b>	2
<b>Fire:</b>	3
<b>Reactivity:</b>	0

**Revised Date:** 8 DECEMBER 2014

**Prepared by:** Nancy Swarts, Indium Corporation of America

**Approved by:** Nancy Swarts, Indium Corporation of America

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