



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

**SAFETY DATA SHEET**

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** 2208-1 ROSIN FLUX

**SDS Number:** SDS-4148

**Revised Date:** 4 FEBRUARY 2015

**Product Use:** INDUSTRIAL USE (MIXTURE) - FLUX

**MANUFACTURER:**

**In America:**

The Indium Corporation of America  
 1676 Lincoln Ave., Utica NY 13502  
 Information: (315) 853-4900  
[nswarts@indium.com](mailto:nswarts@indium.com)

Indium Corporation of America  
 Chicago Materials Division  
 80 Scott Street  
 Elk Grove Village, Illinois 60007

**In Europe:**

Indium Corporation of Europe  
 7 Newmarket Ct.  
 Kingston, Milton Keynes, UK, MK 10 OAG  
 Information: +44 [0] 1908 580400

**In Asia:**

Indium Corporation of America  
 Asia-Pacific Operations-Singapore  
 29 Kian Teck Avenue  
 Singapore 628908  
 Information: +65 6268-8678

**EMERGENCY PHONE:**

**CHEMTREC 24 hrs.**

**USA: 1 (800) 424-9300**

**Outside USA: +1 (703) 527-3887**

**In China:**

Indium Corporation (Suzhou), Co., Ltd.  
 No. 428 Xinglong Street  
 Suzhou Industrial Park  
 Suchun Industrial Square  
 Unit No. 14-C  
 Jiangsu Province, China 215126



## 2. HAZARDS IDENTIFICATION

### PRIMARY ROUTES OF ENTRY:

Eye    
  Inhalation    
  Skin    
  Ingestion    
 NTP    
 Carcinogen listed in IARC    
 OSHA    
  Not Listed

### GHS



Signal Word: Danger

### Hazard Statements:

H225 Highly flammable liquid and vapor  
 H317 May cause an allergic skin reaction  
 H319 Causes serious eye irritation  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled  
 H335 May cause respiratory irritation  
 H336 May cause drowsiness or dizziness  
 EUH208 Contains rosin. May produce an allergic reaction

### Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking  
 P233 Keep container tightly closed  
 P240 Ground container and receiving equipment  
 P242 Use spark resistant 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:

Isopropyl alcohol:

Flammable Liquid - Category 2

Serious eye damage/eye irritant - Category 2

Specific target organ systemic toxicity (single exposure) – Category 3 Central Nervous system

### POTENTIAL HEALTH EFFECTS:

**Eye Contact:** Vapors may be irritating, liquid may damage eye tissue.

**Ingestion:** May cause irritation or harm.

**Inhalation:** Vapor may cause headaches, dizziness or irritation. Rosin may cause occupational asthma.

**Skin Contact:** Prolonged contact may cause irritation and dermatitis.

**Chronic:** Not established.

**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>
<b>ISOPROPANOL</b> (PROPAN-2-OL)	30-35	67-63-0 (US)	980	983	1225
		(EU)	-	999	1250
		(Canada)	-	983	1228
		(Mexico)	980	-	1225
		(Singapore)	983	-	1230
		(China)	-	350	700
<b>ISOBUTYL ALCOHOL</b> (2-Methylpropan-1-ol)	20-25	78-83-1(US)	300	152	-
		(EU)	-	154	231
		(Canada)	-	152	227
		(Singapore)	152	-	-
		(Mexico)	-	150	225
<b>ROSIN</b>	30-35	8050-09-7	N.E.	N.E.	N.E.
		(EU)	0.05	-	0.15(sensitizer)
<b>PROPRIETARY</b>	00-05		N.E.	N.E	N.E.

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

Symbol: XI, F  
N.E. = Not established

Risk Phrases: R36/37/38, R11, R42/43

**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:** 61°F (16C)      **Method:** Closed Cup  
**Auto-ignition Temperature:** N/A  
**Flammable Limits:** Lower 1.7 /Flammable  
**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. All containers should be grounded. Ventilate area in accordance with regulations. Dispose of following all Federal, State and Local regulations. In the EU refer to the Special Waste 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 when in use. Keep away from flame.  
**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.

## 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 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>	Amber	<b>Boiling Point:</b>	175°F
<b>Odor:</b>	Alcohol odor.	<b>Evaporation Rate:</b>	2.5
<b>Specific Gravity:</b>	0.832	<b>pH:</b>	Neutral
<b>Vapor Pressure:</b>	33 mm HG @68 F	<b>Solubility in Water:</b>	Not Soluble
<b>Vapor Density:</b>	2.1 (air=1)	<b>% Volatiles by volume:</b>	90

**10. STABILITY AND REACTIVITY**

<b>General:</b>	Stable.
<b>Conditions to Avoid:</b>	Direct heat, open flames and storage in aluminum.
<b>Incompatible Materials:</b>	Anhydrides, halogens, phosphorus, trichlorides, monomers, aldehydes
<b>Hazardous Decomposition / Combustion:</b>	Carbon dioxide/carbon monoxide/unidentified organics during combustion.
<b>Hazardous Polymerization:</b>	Will not occur.

**11. TOXICOLOGICAL INFORMATION**

<b>Carcinogenicity:</b>	National Toxicity Program	<b>NTP:</b>	No
	Occupational Safety & Health Administration	<b>OSHA:</b>	No
	International Agency for Research on Cancer	<b>IARC:</b>	No

<b>LD50:</b>	Not established.	<b>LC50:</b>	Not established.
--------------	------------------	--------------	------------------

Oral LD50 (isopropyl alcohol)

LD50 Oral- rat- 5,045 mg/kg

Inhalation LC50 (isopropyl alcohol)

LC50 inhalation-rat-8h-16000 ppm

Dermal LD50

LD50 – Dermal- rabbit-12,800 mg/kg

RTECS: Isopropyl alcohol NT8050000

**12. ECOLOGICAL INFORMATION**

.Product mixture no tested.

LC50-Pimephales promelas (fathead minnow)- 9,640 mg/l – 96h (isopropyl alcohol)

EC50-Daphnia magna (water flea) – 5,102 mg/l – 24h (isopropyl alcohol)

### 13. DISPOSAL CONSIDERATION

**Waste Disposal Method:** Dispose of in accordance with all Federal, State and Local environmental regulations. In Europe follow the Special Waste Regulations.

### 14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements.

UN 1987, Alcohols, N.O.S., 3, PG II (isopropanol, isobutyl alcohol)



North American Emergency Guide: 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  
 R42/43 May cause sensitization by inhalation and skin contact

**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:** 4 FEBRUARY 2015

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

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

The information and recommendations contained herein are, to the best of The Indium Corporation of America's knowledge and belief, accurate and reliable as of the date issued. The Indium Corporation of America does not warrant or guarantee their accuracy or reliability, and The Indium Corporation of America shall not be liable for any loss or damage arising out of the user thereof. The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer repackages this product, legal counsel should be consulted to insure proper health, safety and other necessary information is included on the container.