



## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** 784-20 ROSIN FLUX

**SDS Number:** SDS-4149

**Revised Date:** 21 DECEMBER 2018

**Product Use:** FLUX

#### MANUFACTURER:

##### In America:

**The Indium Corporation of America®.**

34 Robinson Rd., Clinton, NY 13323

Information: (315) 853-4900

[nswarts@indium.com](mailto:nswarts@indium.com)

**The Indium Corporation of America®.**

80 Scott Street

Elk Grove Village, Illinois 60007

##### In Europe:

**The Indium Corporation of America® (European Operations)**

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: Emergency 86+ 4008417580**

#### 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

Information: (86) 512-6283-4900

<http://www.indium.com>

## 2. HAZARDS IDENTIFICATION

### PRIMARY ROUTES OF ENTRY:

⊗Eye    ⊗Inhalation    ⊗Skin    ⊗Ingestion    NTP    IARC    OSHA    ⊗Not Listed

### Carcinogen listed in



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  
 H336      May cause drowsiness or dizziness

#### 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  
 H242      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 +P364      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:

Eye irritant – (Category 2A)  
 Flammable liquids - (Category 2)  
 Specific target organ systemic toxicity (single exposure) – (Category 3), Central nervous system  
 Skin sensitizer- Category 1B  
 Respiratory sensitizer- Category 1B

### POTENTIAL HEALTH EFFECTS:

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

**Ingestion:**      May cause persistent nausea, vomiting and abdominal pain.

**Inhalation:**      Vapor may cause headaches and or dizziness.

**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)	40-45	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)	25-35	78-83-1(US)	300	152	-
		(EU)	-	154	231
		(Canada)	-	152	227
		(Singapore)	152	-	-
		(Mexico)	-	150	225
<b>ROSIN</b>	20-25	8050-09-7	N.E.	N.E.	N.E.
		(EU)	0.05	-	0.15(sensitizer)
<b>PROPRIETARY</b> N.E. = Not established	1-10	-	N.E.	N.E.	N.E.

**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                      **Method:** Closed Cup
- Auto-ignition Temperature:** N/A
- Flammable Limits:** Lower 1.7 and Upper 10.7
- 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.

**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:** A NIOSH approved or EU compliant CE 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>	0.8534	<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>	85

**10. STABILITY AND REACTIVITY**

**General:** Stable.

**Conditions to Avoid:** Direct heat, open flames and storage in aluminum.

**Incompatible Materials:** Anhydrides, halogens, phosphorus, trichlorides, monomers, aldehydes

**Hazardous Decomposition / Combustion:** Carbon dioxide/carbon monoxide/unidentified organics during combustion.

**Hazardous Polymerization:** 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.

**12. ECOLOGICAL INFORMATION**

Biodegradability: Data not established.

Aquatic Toxicity: Data not established.

Product not tested. Contains a substance that is harmful to aquatic life.

**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 international regulations and requirements.

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

Flammable label North American Emergency Guide – Guide Page #127



**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 the Mexican guidelines, NOM-018-STPS-2015 and NOM-010-STPS-2014.

In China:

This product has been classified using the Chinese Occupational Limit for Hazardous Agents in the Workplace, GBZ2-2007. Decree No. 591: Regulations on the Control over Safety of Hazardous Chemicals  
GB 30000.2-29-2013, Rules for classification and labeling of chemicals. (GHS)  
GB/T 16483-2008, GB/T 17517-2013

This product has been classified in accordance with: Malaysian – OCCUPATIONAL SAFETY AND HEALTH (CLASSIFICATION, LABELING AND SAFETY DATA SHEET OF HAZARDOUS CHEMICALS) REGULATION OCTOBER 2013 – (CLASS).

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

SARA 313 Listing - 40 CFR 372.65: None

All ingredients are listed on the EPA TSCA Inventory.

## 16. OTHER INFORMATION

<b>HMIS Hazard Rating:</b>	<b>Health:</b>	2
	<b>Fire:</b>	3
	<b>Reactivity:</b>	0

**Revised Date:** 21 DECEMBER 2018

**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.