



## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** 3559 ROSIN FLUX

**SDS Number:** SDS-4426

**Revised Date:** 5 JULY 2018

**Product Use:** INDUSTRIAL USE - ROSIN FLUX

#### MANUFACTURER:

##### In America:

The Indium Corporation of America®  
34 Robinson Rd., Clinton, New York 13323  
Information: (315) 853-4900  
[nswarts@indium.com](mailto:nswarts@indium.com)

Indium Corporation of America  
Chicago Material Division  
80 Scott St.  
Elk Grove Village, Illinois 60007  
Information: (847) 439-9135

##### In Europe:

Indium Corporation of Europe (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:

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

## 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  
 H317      May cause an allergic skin reaction  
 H320      Causes eye irritation  
 H334      May cause allergy or asthma symptoms or breathing difficulties if inhaled  
 H335      May cause respiratory irritation

### 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  
 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 +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:

Flammable Liquid – Category 2  
 Eye irritation – Category 2A  
 Specific target organ 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 irritation. May be harmful.

**Inhalation:**      May cause throat irritation, headache or dizziness. May be harmful if inhaled. Rosin may cause occupational asthma.

**Skin Contact:**      Prolonged contact causes irritation or dermatitis. May be harmful if absorbed through the skin.

**Chronic:**      Not established.

Target Organ: Nerves, liver, heart

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



**WARNING:** This product can expose you to chemicals including [ethyl alcohol] which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

### 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>
ETHYL ALCOHOL (Ethanol)	70-80	64-17-5 (US)	1900	1884	1230
		(EU)	-	1920	-
		(Canada)	-	1884	2355
		(Singapore)	1800	-	-
		(Mexico)	-	1900	-
ISOPROPYL ALCOHOL (PROPAN-2-OL)	5-15	67-63-0	980	983	1225
		(EU)	-	999	1250
		(Canada)	-	983	1228
		(Singapore)	983	-	1230
		(Mexico)	-	980	1225
ROSIN	10-15	8050-09-7	-	-	-
		(EU)	0.05	-	0.15
PROPRIETARY	5-10	-	N.E.	N.E.	N.E.

N.E. = Not established

### 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

<b>Flash Point:</b>	65F	<b>Method:</b>	TCC
<b>Auto-ignition Temperature:</b>	793F		
<b>Flammable Limits:</b>	Lower limit 4.3		
<b>Extinguishing Media:</b>	Use extinguishers appropriate for the surrounding fire conditions. Water/CO2/Dry Chemical		
<b>Special Fire Fighting Procedures:</b>	Standard fire fighting equipment		

## 6. ACCIDENTAL RELEASE MEASURES

**Spill or Leak Procedures:** Do not allow material to enter sewer system or waterway. Wear personal protective equipment, such as gloves and depending on the quantity a respirator with organic cartridges may be required. Clean up by absorption. Eliminate sources of ignition. Keep unnecessary personnel away. Put clean-up materials in a properly labeled metal drum. Dispose of following all Federal, State and Local regulations. In the EU refer to the Special Waste Regulations.

## 7. HANDLING AND STORAGE

<b>Handling Precautions:</b>	Keep containers tightly closed when not in use. Use care to avoid spills. Wear personal protective equipment.
<b>Storage Precautions:</b>	Store product in tightly capped original containers in a cool, dry area away from sources of ignition. 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 is recommended to keep exposure limits as low as possible.

### Personal protection:

<b>Eyes:</b>	Chemical safety glasses/goggles. Face shield for splash hazards.
<b>Respirator:</b>	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.
<b>Skin:</b>	Compatible chemical (alcohol) resistant gloves.
<b>Other:</b>	Lab coat, eyewash fountain in work area. Avoid the use of contact lenses in high fume/splash areas.
<b>Work/Hygienic Practices:</b>	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>	174°F
<b>Odor:</b>	Alcoholic	<b>Melting Point:</b>	Not applicable
<b>Specific Gravity:</b>	0.8408	<b>pH:</b>	Neutral

**Vapor Pressure:** 44MM Hg @68F  
**Vapor Density:** 1.5  
**Volatile by Volume:** 87%

**Solubility in Water:** ND  
**Evaporation Rate:** 1.4%

## 10. STABILITY AND REACTIVITY

**General:** Stable.  
**Conditions to Avoid:** Direct heat, open flames, ammonia, oxidizing agents, peroxides and storage in aluminum.  
**Incompatible Materials:** phosphorus, halogens, anhydrides, monomers, aldehydes, trichlorides  
**Hazardous Decomposition / Combustion:** Carbon dioxide/carbon monoxide.  
**Hazardous Polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Carcinogenicity:** NTP: No  
 OSHA: No  
 IARC: No

**LD50:** Not established.

**LC50:** Not established.

Ethyl alcohol:  
 LD50 oral – rat – 7,060mg/kg  
 LC50 inhalation-rat-10h-20000ppm  
 Specific target organ toxicity – single exposure (GHS)  
 Inhalation – may cause respiratory irritation

## 12. ECOLOGICAL INFORMATION

Product not tested.

Toxicity to fish (ethyl alcohol):

LC50 – rainbow trout – 13,000 mg/l – 96h

EC50- water flea – 9.30 mg/l – 48h

## 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.

UN1170, Ethyl alcohol solution, 3, PG II



North American Emergency Guide Book – Guide #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 Flammable Division 2



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-2015 and NOM-010-STPS-2014.

Regulatory Information China:

GB/T 16483-2008, GB/T 17519-2013, Safety Data Sheets for Chemical Products

GB 30000.2-29-2013, Rules for classification and labeling of chemicals (GHS)

Decree No. 591: Regulations on the Control Over Safety of Hazardous Chemicals.

This product has been classified using the Chinese Occupational Exposure Limit for Hazardous Agents in the Workplace, GBZ2-2007.

Malaysia:

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).



WARNING: This product can expose you to chemicals including [ethyl alcohol] which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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:** 5 JULY 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.