



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

**SAFETY DATA SHEET**

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** 343 ROSIN FLUX

**SDS Number:** SDS-4485

**Revised Date:** 7 FEBRUARY 2015

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

**MANUFACTURER:**

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## 2. HAZARDS IDENTIFICATION

### PRIMARY ROUTES OF ENTRY:

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

GHS:



Signal Word: Danger

### Hazard statement(s)

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/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 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing  
 P305 + P351 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 sensitization- Category 1B  
 Respiratory sensitization- 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. Rosin fume may cause occupational asthma.

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

**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<br>mg/m <sup>3</sup> | TLV-TWA<br>mg/m <sup>3</sup> | TLV-STEL<br>mg/m <sup>3</sup> |
|----------------------------|-------|----------------|--------------------------|------------------------------|-------------------------------|
| ISOPROPANOL<br>PROPAN-2-OL | 55-59 | 67-63-0 (US)   | 980                      | 983                          | 1225                          |
|                            |       | (EU)           | -                        | 999                          | 1250                          |
|                            |       | (Canada)       | -                        | 983                          | 1228                          |
|                            |       | (Singapore)    | 983                      | -                            | 1230                          |
|                            |       | (Mexico)       | -                        | 980                          | 1225                          |
|                            |       | (China)        | -                        | 350                          | 700                           |
| ROSIN                      | 41-45 | 65997-05-9     | N.E.                     | N.E.                         | N.E.                          |
|                            |       | (EU)           | 0.05                     | -                            | 0.15(sensitizer)              |

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

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

**PRODUCT 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:** 54°F                      **Method:** Closed Cup

|  |  |
|--|--|
| <b>Auto-ignition Temperature:</b>        | 750 F  |
| <b>Flammable Limits:</b>                 | Upper: 12 ; Lower 2.0  |
| <b>Extinguishing Media:</b>              | Dry chemical, Water or CO <sub>2</sub> . Use extinguishers appropriate for the surrounding fire conditions.  |
| <b>Special Fire Fighting Procedures:</b> | 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. 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. Ground containers. Keep away from sources of heat.   |
| <b>Storage Precautions:</b>  | 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.

### 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 resistant gloves. Use gloves such as nitrile, which are compatible with alcohols   |
| <b>Other:</b>                   | Lab coat, eye-wash 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.<br>Good personal hygiene is essential. Avoid eating, smoking or drinking in the work area.<br>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>    | 180 F        |
| <b>Odor:</b>             | Alcohol odor.  | <b>Evaporation Rate:</b> | >1.5         |
| <b>Specific Gravity:</b> | 0.835 @60F     | <b>pH:</b>               | 7            |
| <b>Vapor Pressure:</b>   | 31 mm HG @ 68F | <b>Vapor Density:</b>    | >1 (air=1) % |

**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.                                     |
| <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. |

**12. ECOLOGICAL INFORMATION**

Product not tested.

**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.

UN1219, Isopropanol, 3, PG II (mixture)



North America Emergency Guide Book – Guide #129

**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 B2 Flammable Liquid 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.

SARA 313 Listing - 40 CFR 372.65: None

All ingredients are listed on the EPA TSCA Inventory.

This product has been classified under the 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.

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  
 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**

|                            |   |   |
|----------------------------|---|---|
| <b>HMIS Hazard Rating:</b> | <b>Health:</b>                              | 2 |
|                            | <b>Fire:</b>                                | 3 |
|                            | <b>Reactivity:</b>                          | 0 |
| <b>Revised Date:</b>       | 7 FEBRUARY 2015                             |   |
| <b>Prepared by:</b>        | Nancy Swarts, Indium Corporation of America |   |
| <b>Approved by:</b>        | Nancy Swarts, Indium Corporation of America |   |

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