



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

## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** FP-300

**MSDS Number:** MSDS-4317

**Revised Date:** 8 OCTOBER 2013

**Product Use:** Industrial Use - Rework Flux

#### MANUFACTURER:

##### In America:

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## 2. HAZARDS IDENTIFICATION

### PRIMARY ROUTES OF ENTRY:

\*Eye      \*Inhalation      \*Skin      \*Ingestion

### Carcinogen listed in

NTP      IARC      OSHA      \*Not Listed

GHS:



Signal Word: Danger

#### Hazard Statements:

H225      Highly Flammable liquid and vapor  
 H303      Maybe harmful if swallowed  
 H315      Causes skin irritation  
 H319      Causes serious eye irritation  
 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  
 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)

## POTENTIAL HEALTH EFFECTS:

**Eye Contact:** Moderately irritating to the eyes and if not removed promptly, may result in serious eye injury. Do not allow material to come in contact with the eyes.

**Ingestion:** May cause irritation. May be harmful if swallowed.

**Inhalation:** Heated vapor concentrations may cause irritation.

**Skin Contact:** Causes skin irritation.

**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> |
|--------------------|-------|----------------|--------------------------|------------------------------|-------------------------------|
| ISOPROPYL ALCOHOL  | 50-60 | 67-63-0        | 980                      | 983                          | 1230                          |
|                    |       | (EU)           | -                        | 999                          | 1250                          |
|                    |       | (Canada)       |                          | 983                          | 1228                          |
|                    |       | (Singapore)    | 983                      | -                            | 1230                          |
|                    |       | (Mexico)       | -                        | 980                          | 1225                          |
|                    |       | (China)        | -                        | 350                          | 700                           |
| <b>PROPRIETARY</b> | 40-50 | -              | N.E.                     | N.E.                         | N.E.                          |

Symbol: XI, F

N.E. = Not established

Risk Phrases: R36/37/38, R11,R67

EU = European Union Occupational Exposure Limits

### 4. FIRST AID MEASURES

**Eye Contact:** Hold eyelids apart and flush eyes with plenty of 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:** 11C ( 52F)      **Method:** Not available.

**Auto-ignition Temperature:** Not established.

**Flammable Limits:** Limits not established, Flammable

**Extinguishing Media:** Use extinguishers appropriate for the surrounding fire conditions. Foam, dry chemical, water spray.

**Special Fire Fighting Procedures:** Firefighters must wear NIOSH approved self-contained breathing apparatus and full protective clothing.

### 6. ACCIDENTAL RELEASE MEASURES

|                                  |   |
|----------------------------------|---|
| <b>Spill or Leak Procedures:</b> | Wear a respirator and appropriate personal protection (See Exposure Controls/Personal Protective Section). Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. 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. Avoid breathing vapors from heated material. Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Ground containers. |
| <b>Storage Precautions:</b>  | Store product in tightly capped original containers in a cool, dry area. Keep away from heat and flame. Store away from incompatible materials. Empty containers may be hazardous as they contain product residue.   |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Ventilation exhaust is required to control airborne levels.

**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 under certain circumstances where airborne concentrations are expected to be elevated.

**Skin:** Compatible chemical resistant gloves. Protective outer garment, apron. Sleeves as appropriate.

**Other:** Eyewash fountain in work area. Avoid the use of contact lenses in high fume/vapor areas.

**Work/Hygienic Practices:** Maintain good housekeeping. Clean up spills immediately. 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>       | Liquid                    | <b>Boiling Point:</b>       | Not applicable. |
| <b>Odor:</b>             | Mild characteristic odor. | <b>Melting Point:</b>       | Not applicable  |
| <b>Specific Gravity:</b> | 0.9102                    | <b>pH:</b>                  | Not applicable  |
| <b>Vapor Pressure:</b>   | Not applicable.           | <b>Solubility in Water:</b> | Not established |
| <b>Vapor Density:</b>    | (air=1) Not applicable.   |                             |                 |

## 10. STABILITY AND REACTIVITY

**General:** Stable.

**Conditions to Avoid:** High temperatures, open flame, strong reducing agents.

**Incompatible Materials:** Not established

**Hazardous Decomposition / Combustion:** Not established

**Hazardous Polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

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

**LD50:** Not established. **LC50:** 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 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.

Shipping Name: UN 1219, Isopropanol, 3, PG II (mixture)



North American Emergency Guide Book – Guide #129

Marine Pollutant: No

Shipping small quantities: Ground ONLY

40 CFR 173.150 - Exceptions for Class 3 (Flammable Liquids). Limited quantities of flammable liquids, Class 3, are excepted from labeling requirements for ground shipment only. For Packing Group II, inner packaging not over 5.0L (1.3 gallons) net capacity each, packed in a strong outer packaging.

40 CFR 172.203 – Limited quantities- when a shipping paper is required the description for a material offered for transportation as “limited quantity” must include the words “Limited Quantity” following the basic description.

Shipping: UN 1219, Isopropanol, 3, PG II (Limited Quantity) (mixture)

Review 40 CFR for clarification and further information.

Shipping via aircraft requires compliance with the regulations and not under exceptions.

## 15. REGULATORY INFORMATION

The information in this Material 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 using the Chinese Occupational Exposure Limit for Hazardous Agents in the Workplace, GBZ2-2002.

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

SARA 313 Listing - 40 CFR 372.65 - None

All ingredients are listed on the EPA TSCA Inventory and the Domestic Substance List.

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

R11 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/gas/vapor/spray

S24/25 Avoid contact with skin and eyes

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

S28 After contact with skin wash immediately with plenty of soap and water

S62 If swallowed, do not induce vomiting seek medical advice immediately and show container or label

S7 Keep container tightly closed

## INDUSTRIAL USE ONLY

**16. OTHER INFORMATION**

**HMIS Hazard Rating:**      **Health:**      2  
                                    **Fire:**      3  
                                    **Physical Hazards:**      0

**Revised Date:**      8 OCTOBER 2013

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

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

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