



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

**SAFETY DATA SHEET**

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** TACFLUX 007C

**SDS Number:** SDS-IN TF007C

**Revised Date:** 18 JANUARY 2015

**Product Use:** Industrial Use (mixture) - No clean flux for soldering applications

**MANUFACTURER:**

**In America:**

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**CHEMTREC 24 hrs.**

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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: Warning

#### Hazard statement(s)

H317    May cause an allergic skin reaction  
 H320    Causes eye irritation  
 H334    May cause allergy or asthma symptoms or breathing difficulties if inhaled  
 EUH208    Contains rosin. May produce an allergic reaction

#### Precautionary statement(s)

P233    Keep container tightly closed  
 P261    Avoid breathing dust/fume/gas/mist/vapors/spray  
 P270    Do not eat, drink or smoke when using this product  
 P273    Avoid release to 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:**    Irritating to the eyes and can cause serious irritation. Do not allow material to come in contact with the eyes.

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

**Inhalation:**    Heated vapor concentrations may be harmful if inhaled. Irritating to respiratory tract. Rosin fume may cause occupational asthma upon decomposition.

**Skin Contact:**    May cause skin irritation. Allergic reactions are possible, especially with repeated or prolonged exposure.

**Chronic:**    Not established.

Contains 1 % of an ingredient that is suspected of causing cancer.

**NOTE:**    **The Indium Corporation does not recommend, manufacture, market or endorse any of it's product's for human consumption.**

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Components	CAS Registry #
ROSIN	65997-05-9
POLYGLYCOL ETHER	9038-95-3
ALCOHOLS	68603-15-6
MODIFIED CASTER OIL	61788-85-0

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

Symbol: X<sub>i</sub> Risk Phrases: Product : R36/37/38, R42/43  
 N.E. = Not established EU = European Union Occupational Exposure Limits

**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:** >200F
- Auto-ignition Temperature:** Not established.
- Flammable Limits:** Limits not established, not flammable.
- Extinguishing Media:** Use extinguishers appropriate for the surrounding fire conditions.
- Special Fire Fighting Procedures:** Firefighters must wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**6. ACCIDENTAL RELEASE MEASURES**

- Spill or Leak Procedures:** 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**

- Handling Precautions:** 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.
- Storage Precautions:** 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

Components	% wt	CAS Registry #	PEL mg/m <sup>3</sup>	TLV-TWA mg/m <sup>3</sup>	TLV-STEL mg/m <sup>3</sup>
ROSIN	56-64	65997-05-9 (US)	N.E.	N.E.	N.E.
		(EU)	0.05	N.E.	0.15 (sensitiser)
<u>POLYGLYCOL ETHER</u>	<u>31-35</u>	<u>9038-95-3</u>	<u>N.E.</u>	<u>N.E.</u>	<u>N.E.</u>
<u>ALCOHOLS</u>	<u>4-15</u>	<u>68603-15-6</u>	<u>N.E.</u>	<u>N.E.</u>	<u>N.E.</u>
<u>MODIFIED CASTER OIL</u>	<u>1-10</u>	<u>61788-85-0</u>	<u>N.E.</u>	<u>N.E.</u>	<u>N.E.</u>

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

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**Engineering Controls:** Exhaust ventilation should be sufficient to control airborne levels. Use ventilation to keep exposures as low as possible.

**Personal protection:**

- Eyes:** Chemical safety glasses/goggles. Face shield for splash hazards.
- Respirator:** An approved or compliant 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 and sleeves as appropriate.
- Other:** Eyewash fountain in work area. Avoid the use of contact lenses in high fume 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>	Flux – yellow creamy	<b>Boiling Point:</b>	Not applicable.
<b>Odor:</b>	Mild characteristic odor.	<b>Odor Threshold:</b>	N/D
<b>Melting Point:</b>	Not applicable	<b>Flash Point:</b>	>200C
<b>Flammability:</b>	N/A	<b>Explosion Limits:</b>	Not Determined
<b>Specific Gravity:</b>	1 g/cc	<b>pH:</b>	4 -8
<b>Vapor Pressure:</b>	Not applicable.	<b>Solubility in Water:</b>	Insoluble

<b>Vapor Density:</b>	(air=1) Not applicable.	<b>Evaporation Rate:</b>	N/D
<b>Auto-ignition temp:</b>	N/D	<b>Decomposition temp:</b>	N/D
<b>Viscosity:</b>	Not available	<b>Partition coefficient, n-octanol/water:</b>	N/D

## 10. STABILITY AND REACTIVITY

<b>General:</b>	Stable.
<b>Conditions to Avoid:</b>	Freezing temperatures. High temperatures.
<b>Incompatible Materials:</b>	Not established
<b>Hazardous Decomposition / Combustion:</b>	Harmful organic fumes and toxic oxide fumes may form at elevated temperatures.
<b>Hazardous Polymerization:</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

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

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

**Other:** Contains 1% of an ingredient that is suspected of causing cancer and suspected of causing genetic defects.

Germ Cell Mutagenicity: No data available

Carcinogenicity: No data available on product

Reproductive Toxicity: No data available on product

Specific Target Organ Toxicity – Single Exposure – No data available

Specific Target Organ Toxicity – Repeated Exposure; No data available

## 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. Product is generally classified as non-hazardous for waste disposal. Do not discharge to any drain or body of water. Empty containers should not be reused because they may retain residue. All containers should be disposed of in an environmentally safe manner and in accordance with applicable governmental regulations.

## 14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements. Not regulated under US DOT (United States Department of Transportation). Non - hazardous under all shipping modes (ground, air, water).

IATA not regulated.

UN - none

## 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 D 2 Materials causing other toxic effects (skin and eye irritant/skin sensitizer)

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

RoHS = Restriction of Hazardous Substances. Product is complaint with the directive.

All ingredients are listed on the EPA TSCA Inventory.

EC Classification, Packaging and Labeling Requirements:

Symbol and Hazard Classification of Product

X<sub>i</sub>

### Risk Phrases:

R36/37/38 Irritating to eyes, respiratory system and skin  
 R42/43 May cause sensitization by inhalation and skin contact

### Safety Phrases:

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

**16. OTHER INFORMATION**

**HMIS Hazard Rating:**      **Health:**            1  
   **Fire:**                    1  
   **Reactivity:**        0

**Revised Date:**            18 JANUARY 2015

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

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

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