



**INDIUM CORPORATION OF AMERICA ®\EUROPE®\ASIA-PACIFIC®**  
**INDIUM CORPORATION (SUZHOU) ®**  
**MATERIAL SAFETY DATA SHEET**

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** 15-T FLUX PASTE

**MSDS Number:** MSDS-HG4093

**Revised Date:** 9 AUGUST 2007

**Product Use:** Tacflux

**MANUFACTURER:**

**In America:**

The Indium Corporation of America  
 1676 Lincoln Ave., Utica NY 13502  
 Information: (315) 853-4900

**EMERGENCY PHONE:**

CHEMTRIC 24 hrs.  
 USA: 1 (800) 424-9300  
 Outside USA: 1 (703) 527-3887

**In Europe:**

Indium Corporation of Europe  
 7 Newmarket Ct.  
 Kingston, Milton Keynes, UK, MK 10 OAG  
 Information: +44 [0] 1908 580400

**In China:**

Indium Corporation (Suzhou) Co, Ltd.  
 No. 428 Xinglong Street  
 Suzhou Industrial Park  
 Suchun Industrial Square  
 Unit No. 14-C

**In Asia:**

Asia-Pacific Operations-Singapore  
 29 Kian Teck Avenue  
 Singapore 628908  
 Information: +65 6268-8678

Jiangsu Province, China 215126  
 Information: (86) 512-6283-4900

**2. 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>
HEXYL GLYCOL	45-55	107-41-5 (US)		125 (ceiling)	-
		(EU)	-	123	123
		(Canada)	-	120(ceiling)	-
		(Singapore)	-	-	121
		(Mexico)	-	-	125
		(China)	-	100(max)	-

RESIN	35-45	8050-09-7 (EU)	N.E. 0.05	N.E. -	N.E. 0.15(sensitizer)
PROPRIETARY	7-20		N.E	N.E	N.E.
Symbol: XI		Risk Phrases: R36/37/38			
N.E. = Not established					

### 3. HAZARDS IDENTIFICATION

#### PRIMARY ROUTES OF ENTRY:

Eye     Inhalation     Skin     Ingestion    NTP    IARC    OSHA     Not Listed

#### POTENTIAL HEALTH EFFECTS:

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

**Ingestion:** May result in gastric disturbances.

**Inhalation:** May cause mild throat irritation. May be harmful if inhaled.

**Skin Contact:** May cause mild irritation.

**Chronic:** Not established.

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

### 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:** 220 F    **Method:** TCC

**Auto-ignition Temperature:** 750F

**Flammable Limits:** Upper limit 25. Lower limit 1.

<b>Extinguishing Media:</b>	Use extinguishers appropriate for the surrounding fire conditions.
<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

**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 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:**

**Eyes:** Chemical safety glasses/goggles.

**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.

**Other:** Lab coat, 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. 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>	Waxy Solid	<b>Boiling Point:</b>	400°F
<b>Odor:</b>	Alcoholic	<b>Melting Point:</b>	Not applicable
<b>Specific Gravity:</b>	N/A	<b>pH:</b>	Not determined
<b>Vapor Pressure:</b>	<1	<b>Solubility in Water:</b>	Insoluble
<b>Vapor Density:</b>	3.9	<b>Evaporation Rate:</b>	<1
<b>Volatile by Volume:</b>	40%		

## 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>	Strong alkali
<b>Hazardous Decomposition / Combustion:</b>	Carbon dioxide/carbon monoxide.
<b>Hazardous Polymerization:</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Carcinogenicity:</b>	NTP: No OSHA: No IARC: No		
<b>LD50:</b>	Not established.	<b>LC50:</b>	Not established.

## 12. ECOLOGICAL INFORMATION

Product not tested. No information available.

## 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.

North American Emergency Guide Book – Not applicable

## 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.).

The information in this Material Safety Data Sheet meets the requirements of the EU under Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 (CHIP 2) Regulation 6.

This product has been classified in accordance with the hazard criteria of the Commission Directive 91/155/EEC and EH40.

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation (CPR).

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-0180STPS-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.

### SARA 313 Listing - 40 CFR 372.65: None

All ingredients are listed on the EPA TSCA Inventory.

## EC Classification, Packaging and Labeling Requirements:

## Symbol and Hazard Classification of Product

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## Risk Phrases:

R36/37/38 Irritating to eyes, respiratory system and skin

## Safety Phrases:

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

S7 Keep container tightly closed

## 16. OTHER INFORMATION

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

**Revised Date:** 9 AUGUST 2007

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

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

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