



## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** LIQUID FLUX 5-OA

**SDS Number:** SDS-IN LF005

**Updated Date:** 11 JUNE 2018

**Product Use:** Industrial use - Liquid flux

#### MANUFACTURER:

##### In America:

The Indium Corporation of America®.  
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Asia-Pacific Operations-Singapore  
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#### EMERGENCY PHONE:

**CHEMTREC 24 hrs.**  
**USA: 1 (800) 424-9300**  
**Outside USA: +1 (703) 527-3887**  
**In China: Emergency 86+ 4008417580**

##### In China:

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Suchun Industrial Square  
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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)

H302 Harmful if swallowed

H315 Causes skin irritation

H320 Causes eye irritation

H373 May cause damage to organs (kidney) through prolonged or repeated exposure if swallowed

#### 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 the environment

P280 Wear protective gloves/protective clothing/eye protection/face protection

P362 + P364 Take off contaminated clothing and wash before reuse

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor or physician 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:

Skin irritation- Category 2

Eye irritation- Category 2B

Acute toxicity, oral- Category 4

Specific target organ toxicity repeated exposure, oral – Category 2 (kidney)

### POTENTIAL HEALTH EFFECTS:

**Eye Contact:** Causes irritation to eyes. Do not allow material to come in contact with the eyes.

**Ingestion:** Harmful if swallowed, possible kidney damage. May cause irritation.

**Inhalation:** Heated vapor concentrations may be harmful if inhaled.

**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 mg/m <sup>3</sup>	TLV-TWA mg/m <sup>3</sup>	TLV-STEL mg/m <sup>3</sup>
POLYGLYCOL ETHER	70-80	90091-76-2	N.E.	N.E.	N.E.
PROPRIETARY	20-30	-	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**

- Flash Point:** Not established (> 250 F)      **Method:** Not applicable
- Auto-ignition Temperature:** Not established.
- Flammable Limits:** Flammable. Limits not established
- 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**

- Spill or Leak Procedures:** Ventilate area and keep unnecessary personnel from entering the area. 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. Do not dispose of down the drain. 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

- Engineering Controls:** Good exhaust ventilation should be sufficient to control airborne contaminant levels.
- Personal protection:**
- Eyes:** Chemical safety glasses with side shields/goggles and face shield may be required under certain situations.
- Respirator:** A NIOSH approved or EU compliant CE 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.
- 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 established |
| <b>Odor:</b>             | Mild characteristic odor. | <b>Melting Point:</b>       | Not applicable  |
| <b>Specific Gravity:</b> | Not available             | <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.
- 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.
- Other:** Not 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.

**14. TRANSPORT INFORMATION**

Transport in accordance with applicable international regulations and requirements. Non-hazardous for shipping.

UN – None

Not hazardous for ground, IATA or IMDG shipping- not regulated.

**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).

SARA 313 Listing - 40 CFR 372.65 - none  
All ingredients are listed on the EPA TSCA Inventory

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

WHMIS: Insufficient data to classify product.

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: Malaysian – OCCUPATIONAL SAFETY AND HEALTH (CLASSIFICATION, LABELING AND SAFETY DATA SHEET OF HAZARDOUS CHEMICALS) REGULATION OCTOBER 2013 – (CLASS).

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.

This product has been classified under the Mexican regulations NOM-018-STPS-2015 and NOM-010-STPS-2014.

**16. OTHER INFORMATION**

<b>HMIS Hazard Rating:</b>	<b>Health:</b>	2
	<b>Fire:</b>	1
	<b>Reactivity:</b>	0

**Revised Date:** 11 JUNE 2018

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

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

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