SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: POP FLUX 30B
SDS Number: SDS-4637
Revised Date: 22 JUNE 2018

Product Use: Industrial Use: (Mixture) - flux

MANUFACTURER:

In America:
The Indium Corporation of America®.
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Information: (315) 853-4900
nswarts@indium.com

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Asia-Pacific Operations-Singapore
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Singapore 628908
Information: +65 6268-8678

EMERGENCY PHONE:
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Outside USA: +1 (703) 527-3887

In China:
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No. 428 Xinglong Street
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Suchun Industrial Square
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Jiangsu Province, China 215126
Information: (86) 512-6283-4900
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:

H317: May cause an allergic skin reaction
H226: Flammable liquid and vapor
H302: Harmful if swallowed
H332: Harmful if inhaled
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
H360FD: May damage fertility. May damage the unborn child
EUH208: Contains rosin. May produce an allergic reaction

Precautionary statement(s):

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P233: Keep container tightly closed
P261: Avoid breathing dust/fume/gas/mist/vapours/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 + P314: IF SWALLOWED: Get medical attention/advice 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:
- Sensitization, skin- Category 1B
- Flammable liquids- Category 3
- Acute toxicity, oral- Category 4
- Acute toxicity, inhalation- Category 4
- Sensitization, respiratory – Category 1B
- Reproductive toxicity- 1B

POTENTIAL HEALTH EFFECTS:

**Eye Contact:** 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:** Harmful if swallowed. May cause irritation and damage to the mouth, esophagus and gastrointestinal tract.

**Inhalation:** Heated vapor concentrations may be harmful if inhaled. May cause irritation or harm to respiratory tract. Rosin may cause occupational asthma.
Skin Contact: May cause skin irritation. Allergic reactions or dermatitis are possible, especially with repeated or prolonged exposure. May be harmful if absorbed through the skin

Chronic: Not established. Contains a chemical that may impair fertility or cause harm to the unborn child. Target organs(2-methoxyethanol): CNS/liver/lungs/kidneys/immune system/bone marrow.

Warning: This product can expose you to chemicals including [2-methoxyethanol] which is known to the State of California to cause male reproductive harm. For more information go to www.P65Warnings.ca.gov

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>% wt</th>
<th>CAS Registry #</th>
<th>PEL mg/m³</th>
<th>TLV-TWA mg/m³</th>
<th>TLV-STEL mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROSIN</td>
<td>45-55</td>
<td>65997-05-9 (US)</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(EU) 0.05</td>
<td>N.E.</td>
<td>0.15 (sensitiser)</td>
<td></td>
</tr>
<tr>
<td>2-METHOXYETHANOL</td>
<td>30-45</td>
<td>109-86-4</td>
<td>80 (skin)</td>
<td>16</td>
<td>N.E.</td>
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<tr>
<td></td>
<td></td>
<td>(EU) 16 (MEL-skin)</td>
<td>N.E.</td>
<td>N.E.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Canada)</td>
<td>N.E.</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>CARBOXYLIC ACID (NON-HAZARDOUS)</td>
<td>10-15</td>
<td>68937-69-9</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
</tbody>
</table>

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: 46 C (115 F) Method: Not available
Auto-ignition Temperature: Not established.
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. Keep sources of ignition away.

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. Keep sources of ignition away. Ground containers.

**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:** Exhaust ventilation is recommended to control airborne levels and keep exposures as low as possible. Recommend material not be used without proper ventilation.

**Personal protection:**

**Eyes:** Chemical safety glasses with side shields or 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 elevate or when proper ventilation is not available.

**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.

**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 after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Flux  
**Boiling Point:** Not applicable.

**Odor:** Mild characteristic odor.  
**Melting Point:** Not applicable.

**Specific Gravity:** Not applicable.  
**pH:** Not applicable.

**Vapor Pressure:** Not applicable.  
**Solubility in Water:** Insoluble.

**Vapor Density:** (air=1) Not applicable.  
**Flash Point:** 46C (115F).

10. STABILITY AND REACTIVITY

**General:** Stable.
11. **TOXICOLOGICAL INFORMATION**

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

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

   **Other:** 2-methoxyethanol  
   LD50 oral - 2370 mg/kg (rat)  
   LD50 Dermal – 1280 mg/kg (rabbit) & 2000 mg/kg (rat)

12. **ECOLOGICAL INFORMATION**

   Product not tested.

   2-methoxyethanol
   500 mg/l LC50 96h (freshwater fish)
   10000 mg/l LC50 96h (freshwater fish)

13. **DISPOSAL CONSIDERATION**

   **Waste Disposal Method:**
   Dispose of in accordance with all Federal, State and Local environmental regulations.  
   Do not reuse the empty container. Dispose of product as flammable. Avoid release to environment.

14. **TRANSPORT INFORMATION**

   Transport in accordance with applicable international regulations and requirements.

   **Shipping name:** UN 1188, Ethylene Glycol Monomethyl Ether, 3, PG III

   ![Flammable Label]

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.).

![Warning]

Warning: This product can expose you to chemicals including [2-methoxyethanol] which is known to the State of California to cause male reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

SARA 313 Listing - 40 CFR 372.65 : 2-methoxyethanol

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).

[Class B Division 2 Flammable, D2B Toxic Material Causing Other Toxic Effects (eye irritation in animals) (skin 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.

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 30000.2-9-2013, 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 Limit for Hazardous Agents in the Workplace, GBZ2-2007.

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS Hazard Rating</th>
<th>Health:</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fire:</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Physical Hazards:</td>
<td>0</td>
</tr>
</tbody>
</table>

Revised Date: 22 JUNE 2018
Prepared by: Nancy Swarts, Indium Corporation of America
Approved by: Nancy Swarts, Indium Corporation of America

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