SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:  # 710
SDS Number:  SDS-HG4058  Revised Date:  21 JANUARY 2020
Product Use:  INDUSTRIAL USE ONLY- ROSIN FLUX

MANUFACTURER:

In America:
The Indium Corporation of America®.
34 Robinson Rd., Clinton, NY  13323
Information: (315) 853-4900
nswarts@indium.com

In Europe:
The Indium Corporation of America® (European Operations)
7 Newmarket Ct
Kingston, Milton Keynes, UK, MK 10 OAG
Information: +44 [0] 1908 580400

In Asia:
Indium Corporation of America
Asia-Pacific Operations-Singapore
29 Kian Teck Avenue
Singapore 628908
Information: +65 6268-8678

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

In China:
Indium Corporation (Suzhou), Co., Ltd.
No. 428 Xinglong Street
Suzhou Industrial Park
Suchun Industrial Square
Unit No. 14-C
Jiangsu Province, China 215126
Information: (86) 512-6283-4900

http://www.indium.com
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
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
P241  Use explosion-proof electrical/ventilating/lightening/equipment
P242  Use only non-sparking tools
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 + 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)

Classification:

Flammable liquids - Category 2
Eye irritant – Category 2A
Specific target organ systemic toxicity (single exposure) – Category 3

POTENTIAL HEALTH EFFECTS:

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

**Ingestion:**  May cause persistent nausea, vomiting and abdominal pain.

**Inhalation:**  Vapor may cause headaches and or dizziness.

**Skin Contact:**  Prolonged contact may cause irritation and dermatitis.

**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

<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-STE L mg/m³</th>
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</table>

N.E. = Not established  EU = European 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:** 54°F  **Method:** Closed Cup

**Auto-ignition Temperature:** 399°C (750°F)  
**Flammable Limits:** Upper: 12.7 @77°F; Lower 2 @ 77°F  
**Extinguishing Media:** Dry chemical, Alcohol type foam. Use extinguishers appropriate for the surrounding fire conditions.

**Special Fire Fighting Procedures:** Wear protective clothing and self - contained breathing apparatus. Use water to cool fire exposed containers. Flammable vapors may travel great distances to ignition source and flash back.
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. 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 recommended.

Personal protection:

Eyes: Chemical safety glasses/goggles. Face shield for splash hazards.

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. Use gloves such as nitrile, which are compatible with alcohols and lower pH chemicals. Do not use latex gloves.

Other: Lab coat, sleeve protectors, eye-wash 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Appearance</td>
<td>Liquid, Amber</td>
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<tr>
<td>Odor</td>
<td>Alcohol odor</td>
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<tr>
<td>Specific Gravity</td>
<td>0.820 +/- 0.005</td>
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<tr>
<td>Vapor Pressure</td>
<td>33 mm Hg @68 F</td>
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<tr>
<td>Vapor Density</td>
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<tr>
<td>Evaporation Rate</td>
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<tr>
<td>% Volatiles by volume</td>
<td>75-90</td>
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</table>
10. STABILITY AND REACTIVITY
   General: Stable.
   Conditions to Avoid: Direct heat, open flames and storage in aluminum.
   Incompatible Materials: Anhydrides, halogens, phosphorus, trichlorides, monomers, aldehydes
   Hazardous Decomposition / Combustion: Carbon dioxide/carbon monoxide.
   Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION
   Carcinogenicity: NTP: No
                   OSHA: No
                   IARC: No
   LD50: Not established.  LC50: Not established.

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.
    UN1987, Alcohols, N.O.S., 3, II (isopropanol, stoddard solvent)  Label: flammable

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 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).
SARA 313 Listing - 40 CFR 372.65: None

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 in accordance with Mexican regulations NOM-0180STPS-2015 and NOM-010-STPS-2014.

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

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)

All ingredients are listed on the EPA TSCA Inventory.

Ingredients are listed on the Canadian Domestic Substance List.

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS Hazard Rating</th>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
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<td></td>
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Revised Date: 21 JANUARY 2020
Prepared by: Nancy Swarts, Indium Corporation of America
Approved by: Nancy Swarts, Indium Corporation of America

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