



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

## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** NC506

**SDS Number:** SDS-4448

**Revised Date:** 2 MAY 2016

**Product Use:** Industrial Use – Flux for soldering type applications

#### MANUFACTURER:

##### In America:

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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)

H315 Causes skin irritation  
 H317 May cause an allergic skin reaction  
 H319 Causes serious eye irritation  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled  
 H335 May cause respiratory irritation  
 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 the 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)

Classification:

Skin irritant (Category 3)  
 Eye irritant (Category 2A)

### POTENTIAL HEALTH EFFECTS:

- Eye Contact:** Irritating to the eyes and if not removed promptly, may result in serious eye irritation. Do not allow material to come in contact with the eyes.
- Ingestion:** May cause irritation.
- Inhalation:** Heated vapor concentrations may cause irritation or harm if inhaled.
- Skin Contact:** May cause skin irritation. Allergic reactions (dermatitis) are possible, especially with repeated or prolonged exposure.
- Chronic:** Not established. Long term exposure to rosin based solder flux fume has been known to cause occupational asthma.

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

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

Components	% wt	CAS Registry #	PEL mg/m <sup>3</sup>	TWA mg/m <sup>3</sup>	STEL mg/m <sup>3</sup>
ROSIN	49 - 54	65997-05-9	N.E.	N.E.	N.E.
		(EU)	0.5.	N.E.	0.15(sensitizer)
POLYGLYCOL ETHER	28 - 33	9038-95-3	N.E.	N.E.	N.E.
PROPRIETARY ACTIVATORS	8 – 22.5	-	N.E.	N.E.	N.E.
PROPRIETARY AMINE	0.5 - 4	-	N.E.	5	N.E.
		(Singapore)	5	N.E.	N.E.

N.E. = Not established      EU = European Union Occupational Exposure Limits  
 Product meets the requirements under the RoHS (Restriction of Hazardous Substance. No flame- retardants are contained within and no metals are contained in the product.

TWA = time weighted average  
 STEL = short term exposure limit

**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:**        >100C (212 F)      **Method:**        Not available

**Auto-ignition Temperature:**    Not established.

<b>Flammable Limits:</b>	Limits not established
<b>Extinguishing Media:</b>	Use extinguishers appropriate for the surrounding fire conditions. Foam, dry chemical, water spray.
<b>Special Fire Fighting Procedures:</b>	Firefighters must wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Spill or Leak Procedures:</b>	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. Never allow material to enter any water way unless approved to do so.
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**7. HANDLING AND STORAGE**

<b>Handling Precautions:</b>	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.
<b>Storage Precautions:</b>	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**

<b>Engineering Controls:</b>	Exhaust ventilation is necessary to control airborne levels, especially during heating.
<b>Personal protection:</b>	
<b>Eyes:</b>	Chemical safety glasses/goggles. Face shield for splash hazards.
<b>Respirator:</b>	A 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 elevated.
<b>Skin:</b>	Compatible chemical resistant gloves such as nitrile should be worn. Protective outer garment, apron and sleeves as appropriate.
<b>Other:</b>	Eyewash fountain in work area. Avoid the use of contact lenses in high fume areas.
<b>Work/Hygienic Practices:</b>	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 - yellowish	<b>Boiling Point:</b>	Not established
<b>Odor:</b>	Mild characteristic odor.	<b>Melting Point:</b>	Not applicable
<b>Specific Gravity:</b>	Not established	<b>pH:</b>	Not applicable
<b>Vapor Pressure:</b>	Not applicable.	<b>Solubility in Water:</b>	Not soluble
<b>Vapor Density:</b>	(air=1) Not applicable.		

## 10. STABILITY AND REACTIVITY

<b>General:</b>	Stable.
<b>Conditions to Avoid:</b>	High temperatures, open flame.
<b>Incompatible Materials:</b>	Not established
<b>Hazardous Decomposition / Combustion:</b>	Not established
<b>Hazardous Polymerization:</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Carcinogenicity:</b>	<b>NTP:</b> No		
	<b>OSHA:</b> No		
	<b>IARC:</b> No		
<b>LD50:</b>	Not established.	<b>LC50:</b>	Not established.
<b>Other:</b> Exposure to rosin-based solder flux fume may cause occupational asthma.			

## 12. ECOLOGICAL INFORMATION

Product not tested.

Product contains substances that are harmful to the aquatic life with long lasting effects.

An environmental hazard cannot be excluded in the event of unprofessional handling use and disposal of this product.

## 13. DISPOSAL CONSIDERATION

**Waste Disposal Method:** Dispose of in accordance with all Federal, State and Local environmental regulations.

## 14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements. Not regulated under the USDOT.

Non hazardous under shipping regulations.

UN – none.

Non-hazardous- ground/IATA/IMDG

## 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).



Canadian WHMIS: D2B Materials Causing Other Toxic Effects -irritant

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 under the Mexican regulations NOM-018-STPS-2015 and NOM-010-STPS-2014.

In China:

Decree No. 591: Regulations on the Control over Safety of Hazardous Chemicals

GB 30000.2-29-2013, Rules for classification and labeling of chemicals. (GHS)

GB/T 16483-2008, GB/T 17517-2013

Information on exposure levels in China is from regulation document GBZ2-2002 Occupational Exposure Limit for Hazardous Agents in the Workplace.

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).

This product has been classified using the Chinese Occupational Exposure Limit for Hazardous Agents in the Workplace, GBZ2-2002.

All ingredients are listed under the following chemical lists:

- \*China Chemical Inventory
- \*Philippines Inventory of Chemicals and Chemical Substances
- \*Korean Inventory of Existing Chemicals
- \*Japanese Inventory Chemicals Substances Law
- \*European Inventory of Existing Commercial Chemical Substances

**16. OTHER INFORMATION**

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

**Revised Date:** 2 MAY 2016

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

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

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