

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

## SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: FC-MC-M

SDS Number: SDS-IN FC029 Revised Date: 1 JUNE 2016

**Product Use:** Industrial Use - Flip chip flux

## **MANUFACTURER:**

In America:

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

#### 2. HAZARDS IDENTIFICATION

## PRIMARY ROUTES OF ENTRY:

Carcinogen listed in

\*Eye \*Inhalation \*Skin \*Ingestion NTP IARC OSHA \*Not Listed

GHS:







Signal Word: Warning Hazard statement (s)

H226 Flammable liquid and vapor
 H303 May be harmful if swallowed
 H319 Causes serious eye irritation
 H336 May cause drowsiness or dizziness

H412 Harmful to aquatic life with long lasting effects

Precautionary statement(s)

P210 Keep away from heat/spark/open flames/hot surfaces – No Smoking

P240 Ground container and receiving equipment
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 +P351 IF IN EYES: Rinse cautiously with water for several minutes (15 mins)

Classification:

Flammable liquid- Category 3
Eye damage/irritation- Category 2B
Acute toxicity, Oral – Category 5
Acute aquatic toxicity- Category 3
Chronic aquatic toxicity – Category 3

## **POTENTIAL HEALTH EFFECTS:**

Eye Contact: Causes irritation to the eyes. If splashed in eyes and not removed promptly, may cause damage to

the eyes.

**Ingestion:** May be harmful if swallowed. May cause irritation.

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

**Skin Contact:** May cause 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/m³	TLV-TWA mg/m³	TLV-STEL mg/m³	
2-PROPANOL (ISOPROPYL ALCOHOL)	22-27	67-63-0 (US)	980	980	1225	
(11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		(EU)	N.E.	999	1250	
		(Canada)	N.E.	983	1228	
		(Singapore)	983	-	1230	
		(China)	-	350	700	
		(Mexico)	N.E.	980	1225	
PROPRIETARY SOLVENT	60-70	-	N.E.	N.E.	N.E <u>.</u>	
PROPRIETARY ADDITIVES	8-13	-	N.E.	N.E.	N.E.	
N.E. = Not established	N.E. = Not established EU = European Union Occupational 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: 24 C (75 F) Method: ASTM D93-80

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** Firefighters must wear NIOSH approved self-contained breathing apparatus and full

**Procedures:** protective clothing.

#### 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. In the EU refer to the Special Waste Regulations.

#### 7. HANDLING AND STORAGE

Handling Keep containers tightly closed when not in use. Use care to avoid spills. Avoid breathing **Precautions:** 

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 levels.

Personal protection:

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

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 elevated.

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 in high fume/splash areas.

Work/Hygienic Maintain good housekeeping. Clean up spills immediately.

**Practices:** 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

Appearance: Liquid **Boiling Point:** Not applicable. Odor: **Melting Point:** Mild characteristic odor. Not applicable

**Density:** 0.909 g/cc pH: 5.7

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

Vapor Density: (air=1) Not applicable.

## **10.STABILITY AND REACTIVITY**

General:

**Conditions to Avoid:** High temperatures, open flame.

**Incompatible Materials:** Strong oxidizing agents

**Hazardous Decomposition /** Carbon monoxide/carbon dioxide

Combustion:

Hazardous Polymerization: Will not occur.

## 11. TOXICOLOGICAL INFORMATION

Carcinogenicity: NTP: No

OSHA: No IARC: No

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

Other: Contains a substance that is suspected of damaging fertility or the unborn child.

#### 12. ECOLOGICAL INFORMATION

Product not tested.

Contains an ingredient with the following warning message:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic organisms with long-term effects.

## 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.



**UN 1987, ALCOHOLS, N.O.S., 3, PG III** 

#### 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 Mexican regulations: NOM-018-STPS-2015 and NOM-010-STPS-2014.

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





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.

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, GBZ2-2002.

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).

SARA 313 Listing - 40 CFR 372.65 - None

All ingredients are listed on the EPA TSCA Inventory and the Domestic Substance List.

## **16. OTHER INFORMATION**

HMIS Hazard Rating: Health: 2

Fire: 2 Reactivity: 0

Revised Date: 1 JUNE 2016

Prepared by: Nancy Swarts, Indium Corporation of America

Approved by: Nancy Swarts, Indium Corporation of America

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