

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: FC-WS-HT-B1

SDS Number: SDS-IN FC026 **Revised Date:** 5 DECEMBER 2018

Product Use: Industrial Use - Flip chip flux

MANUFACTURER:

In America: **EMERGENCY PHONE:**

The Indium Corporation of America®. **CHEMTREC 24 hrs.** 34 Robinson Rd., Clinton, NY 13323 USA: 1 (800) 424-9300

Information: (315) 853-4900 Outside USA: +1 (703) 527-3887 In China: Emergency 86+ 4008417580

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

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:

Carcinogen listed in

XEye XInhalation XSkin XIngestion NTP IARC OSHA XNot Listed

GHS:





Signal Word: Danger

Hazard Statements:

H225 Highly Flammable liquid and vapor

H316 Causes mild skin irritation 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
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:

Eye irritant – (Category 2A)

Flammable liquids - (Category 2)

Skin irritation- (Category 3)

Specific target organ systemic toxicity (single exposure) – (Category 3), Central nervous system

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: May cause irritation and may be harmful.

Inhalation: Heated vapor concentrations may be harmful if inhaled. May cause irritation.

High concentrations can cause headache

Skin Contact: May cause skin irritation.

Chronic: Not established.

WARNING: This product can expose you to chemicals including [trace amounts of ethylene oxide and 1,4 dioxane] which is known to the State of California to cause cancer, and [trace amounts of ethylene oxide] which causes birth defects or other 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 products for human consumption.

3. COMPOSITION / IN	FORMATIO	ON ON INGREDIEN	TS			
Components	% wt	CAS Registry #	PEL mg/m³	TLV-TWA mg/m³	TLV-STEL mg/m³	
ISOPROPYL ALCOHOL	20-30	67-63-0	980	983	1230	
		(EU)	-	999	1250	
		(Canada)	-	983	1228	
		(Singapore)	983	-	1230	
		(Mexico)	-	980	1225	
		(China)	-	350	700	
POLYGLYCOL ETHER	30-40	9038-95-3	N.E.	N.E.	N.E.	
PROPRIETARY	15-30		N.E.	N.E.	N.E.	
PROPRIETARY ALCOHOL	15-20		15	10	-	
		(EU)	-	10	-	
		(Canada)	-	10	20	
		(Mexico)	-	10	-	
N.E. = Not established	EU = Europe	an Union Occupational Ex	posure 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: 24C (76 F) **Method**: Closed cup (11/6/2013)

Auto-ignition Temperature: Not established.

Flammable Limits: 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: Isolate area and keep unnecessary personnel away. Wear a respirator and appropriate

Personal Protective (See Exposure Control/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

HandlingKeep 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: Local exhaust ventilation is necessary to control airborne contaminant levels.

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 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 in high fume 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/paste Boiling Point: 94C

Odor: Alcohol like odor. Melting Point: Not applicable
Specific Gravity: 1.05 pH: Not applicable

Vapor Pressure: Not applicable. Solubility in Water: Soluble

Vapor Density: (air=1) Not applicable.

10.STABILITY AND REACTIVITY

General: Stable.

Conditions to Avoid: High temperatures, open flame.

Incompatible Materials: Not established Hazardous Decomposition / Not established

Combustion:

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity: NTP: No

OSHA: No IARC: No

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

Other: None known

12. ECOLOGICAL INFORMATION

Data not established.

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.

UN1219, Isopropanol, 3, PGII

North American Emergency Guide Book - Guide #129



Marine pollutant: No

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 Canadian Controlled Products Regulation (CPR).

WHMIS: Division 2 Class B 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, GBZ2-2007.

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

Malaysia:

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).

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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: 1

Fire: 3
Reactivity: 0

Revised Date: 5 DECEMBER 2018

Prepared by: Nancy Swarts, Indium Corporation of America

Approved by: Nancy Swarts, Indium Corporation of America

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