SDS - 4710 WF-9945



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: WF-9945 LEAD FREE ROSIN FLUX

SDS Number: SDS-4710 3 JULY 2018 **Revised Date:**

Product Use: INDUSTRIAL USE (mixture) - WAVE SOLDER FLUX

MANUFACTURER:

EMERGENCY PHONE: In America:

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2. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY:

Carcinogen listed in

⊗Eye ⊗Inhalation ⊗Skin ⊗Ingestion NTP IARC OSHA ⊗Not Listed

GHS







Signal Word: Danger

Hazard Statements:

H225 Highly Flammable liquid and vapor

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
H336 May cause drowsiness or dizziness

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

P240 Ground/Bond 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)

P501 Dispose of in accordance with applicable regulations

Classification:

Flammable Liquid - Category 2

Skin irritant- Category 3 Eye irritant- Category 2

POTENTIAL HEALTH EFFECTS:

Eye Contact: Vapors may be irritating, liquid may cause irritation to eye tissue.

Ingestion: May cause persistent nausea, vomiting and abdominal pain. Irritating to digestive tract.

Inhalation: Vapor may cause headaches and or dizziness. Avoid inhalation of vapors. Irritating to respiratory

tract. Rosin may cause occupational asthma.

Skin Contact: Prolonged contact may cause irritation and dermatitis.

Chronic: Over exposure to vapors may be harmful. Not established.

NOTE: The Indium Corporation does not recommend, manufacture, market or endorse any of its

products for human consumption.

3D3 - 47 10					VVI -9945
3. COMPOSITION / INFORMATION ON INGREDIENTS					
Components	% wt	CAS Registry #/EINECS	PEL mg/m³	TLV-TWA mg/m³	TLV-STEL mg/m³
ISOPROPANOL	80-86	67-63-0/200-661-7			
		(US)	980	983	1225
(PROPAN-2-OL)		(EU)	-	999	1250
		(Canada)	-	983	1228
		(Mexico)	980	-	1225
		(China)	-	350	700
		(Singapore)	983	-	1230
MINERAL SPIRITS	10-15	8052-41-3/232-489-3	2900	572	-
		(Canada)	-	525	1050
ROSIN	5-12	65997-05-9/NLP No. 500-1	63-2		
			N.E.	N.E.	N.E.
		(EU)	0.05	-	0.15
PROPRIETARY ACTIVATORS	1-3	-	N.E.	N.E.	N.E.
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: 12°C (54°F) Method: Closed Cup

Auto-ignition Temperature: 750 F (isopropanol)

Flammable Limits: Upper: 12 @77°F; Lower 2 @ 77°F (isopropanol)

Extinguishing Media: Water. 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. Eliminate sources of ignition. Ventilate area in accordance with regulations. 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. Wear personal

Precautions: protective equipment. Ground containers. Use in well vented areas.

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. Overall exhaust ventilation.

Recommended in order to keep exposures to as low as possible.

Personal protection:

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

Respirator: An approved or compliant marked air-purifying respirator with a fume/organic chemical

cartridge is recommended where airborne concentrations are expected to be elevated. Use respiratory protection in confined areas. Air purifying respirators will offer no protection in oxygen

deficient areas. Ensure that the protection factors of the respirator are not exceeded.

Skin: Compatible chemical resistant gloves. Use gloves such as nitrile, which are compatible with alcohols.

Do not use latex gloves for handling of product.

Other: Lab coat, eye-wash 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: 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

Appearance:Amber liquidBoiling Point:83C(181F)Odor:Alcohol odor.Evaporation Rate:Not available

Specific Gravity:0.802 g/ccpH:5.8Vapor Pressure:Not availableSolubility in Water:SolubleVapor Density:Not availableFlash Point:12C(54F)

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 / Carbon dioxide/carbon monoxide.

Combustion:

Hazardous Polymerization: Will not occur.

11.TOXICOLOGICAL INFORMATION

Carcinogenicity: National Toxicity Program NTP: No

Occupational Safety & Health Administration **OSHA**: No International Agency for Research on Cancer **IARC**: No

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

12. ECOLOGICAL INFORMATION

Product not tested.

An environmental hazard cannot be excluded in the event of unprofessional handling.

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 international regulations and requirements.

UN1987, Alcohols, N.O.S., 3, PG II (isopropanol, mineral spirits)

FLAMMABLE 3

North American Emergency Guide Book - Guide # 127

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).

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: 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-018-STPS-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 Exposure 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).

RoHS 2 (Restriction of Hazardous Substances) Compliance Statement: This product complies with the requirements of the EU Directive 2011/65/EU regarding the restriction of certain hazardous substances in electronic equipment. This product does not contain any metals and does not contain any flame-retardants.

16. OTHER INFORMATION

HMIS Hazard Rating: Health: 2

Fire: 3 Physical Hazard: 0

Revised Date: 3 JULY 2018

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Approved by: Nancy Swarts, Indium Corporation of America

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