

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

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: #14 ROSIN FLUX

MSDS Number: MSDS-HG017 Revised Date: 7 APRIL 2010

Product Use: Industrial Use - Wave Solder Flux

MANUFACTURER:

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2. HAZARDS IDENTIFICATION

GHS:



Warning Word: Danger/Irritant

PRIMARY ROUTES OF ENTRY: Carcinogen listed in

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

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. Rosin may cause occupational asthma.

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					
Components	% wt	CAS Registry #	PEL mg/m³	TLV-TWA mg/m³	TLV-STEL mg/m³
ISOPROPANOL	45-55	67-63-0	980	983	1225
		(EU)		999	1250
		(Canada)	-	983	1228
		(Singapore)	983	-	1230
		(Mexico)	-	980	1225
		(China)	-	350	700
ROSIN	45-55	8050-09-7 (EU)	N.E. 0.05	N.E. N.E	N.E. 0.15
HYDROCARBON	1-5	8052-41-3	N.E	N.E	100 (PPM)

4. FIRST AID MEASURES

Eye Contact: Hold eyelids apart and flush eyes with plenty of 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: 16°C (61°F) Method: Closed Cup

Auto-ignition Temperature: 399°C (750°F)

Flammable Limits: Upper: 12 @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. 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.

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. Recommend exhaust ventilation when

working with product.

Personal protection:

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

Respirator: An authority approved or compliant 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.

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: Liquid, Amber **Boiling Point:** 81°C (177°F)

Odor: Alcohol odor. Evaporation Rate: 1.7

Specific Gravity:0.912 @ 60° FpH:Not determinedVapor Pressure:33 mm HG @68 FSolubility in Water:50% Soluble

Vapor Density: 2.1 (air=1) % Volatiles by volume: 50

Pounds Per Gallon: 7.63

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

This section is subject to future development.

Biodegradability: Data not established. Aquatic Toxicity: 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 regulations and requirements.



UN1219, Isopropanol, 3, PG II (mixture)

North American Emergency Guide #129

15. REGULATORY INFORMATION

The information in this Material 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.).

The information in this Material Safety Data Sheet meets the requirements of the EU under Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 (CHIP 2) Regulation 6.

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 using the Chinese Occupational Exposure Limit for Hazardous Agents in the Workplace, GBZ2-2002.

This product has been classified in accordance with the Mexican standard NOM-018-STPS-2000 and NOM-010-STPS-1999.

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

Canadian WHMIS: Class B2 Flammable Liquid





This product has been classified in accordance with the guidelines set by the Dept of Industrial Health of the Republic of Singapore.

SARA 313 Listing - 40 CFR 372.65: None

All ingredients are listed on the EPA TSCA Inventory.

Ingredients are listed on the Canadian Domestic Substance List.

EC Classification, Packaging and Labeling Requirements:

Symbol and Hazard Classification of Product

Xi, F

Risk Phrases:

R36/37/38 Irritating to eyes, respiratory system and skin

R 11 Highly Flammable

R42/43 May cause sensitization by inhalation and by skin contact

Safety Phrases:

S16 Keep away from sources of ignition - "No Smoking"

S20/21 When using do not eat, drink or smoke

Do not breathe fumes
Avoid contact with skin and eyes
After contact with skin wash immediately with plenty of soap and water
Wear suitable protective clothing, gloves and eye/face protection
If swallowed, do not induce vomiting seek medical advice immediately and show container or label
Keep container tightly closed

16. OTHER INFORMATION

HMIS Hazard Rating: Health: 2

Fire: 3 Reactivity: 0

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