

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

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: WF-9959 SDS Number: SDS- 4787

Revised Date: 15 MARCH 2015

**Product Use:** Industrial Use - Liquid flux for soldering related activities

# **MANUFACTURER:**

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# 2. HAZARDS IDENTIFICATION

#### PRIMARY ROUTES OF ENTRY:

Carcinogen listed in

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

GHS:





Signal Word: Danger Hazardous statement(s)

H319 Causes serious eye irritation H225 Highly flammable liquid and vapor H317 May cause an allergic skin reaction

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 May cause respiratory irritation H336 May cause drowsiness and dizziness

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed P233

Ground container and receiving equipment P240

Use only non-sparking equipment P242

Avoid breathing dust/fume/gas/mist/vapors/spray P261 Do not eat, drink or smoke when using this product P270

Avoid release to the environment P273

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:

Flammable Liquid - Category 2 Eye irritation - Category 2A Skin sensitization- Category 1B

Respiratory sensitization- Category 1B

Specific target organ 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 be harmful if swallowed. May cause irritation and damage to the mouth, esophagus,

gastrointestinal tract. May cause headache, dizziness or lowered blood pressure.

Inhalation: Heated vapor concentrations may be harmful if inhaled. Moderately toxic. Moderately irritating

to respiratory tract. Inhalation of high concentrations may cause headache or central nervous system

depression. Rosin may cause occupational asthma.

**Skin Contact:** May cause skin irritation or dryness. Allergic reactions/dermatitis are possible, especially with

repeated or prolonged exposure.

**Chronic:** Target organs: CNS

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 #/EINECS	PEL mg/m³	TLV-TWA mg/m³	TLV-STEL mg/m³
ROSIN FLUX	40-50	65997-05-9	N.E.	N.E.	N.E.
		(EU)	0.05	N.E.	0.15
ISOPROPYL ALCOHOL	35-40	67-63-0/200-661-7	980	983	1230
(Propan-2ol)		(EU)	-	999	1250
		(Canada)	-	983	1228
		(Singapore)	983	-	1230
		(Mexico)	-	980	1225
		(China)	-	350	700
METHYL ETHYL KETONE	10-20	78-93-3/201-159-0	590	590	885
(Butanone)		(EU)	N.E.	600	899
		(Canada)	N.E.	590	885
		(Singapore)	590	-	885
		(Mexico)	-	590	885
		(China)	-	300	600
Symbol: XI, F Risk Phrases: R36/37/38, R11,R42/43,R67  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: 11 C (52 F) Method: Not available

Auto-ignition Temperature: Not established.

Flammable Limits: Limits not established. Flammable

**Extinguishing Media:** Use extinguishers appropriate for the surrounding fire conditions. Foam, dry

chemical, water spray.

**Special Fire Fighting** 

Procedures:

Firefighters must wear NIOSH approved self-contained breathing apparatus and full protective clothing. Evacuate area and fight fire from a safe distance. Containers can

build up pressure if exposed to heat (fire) or flame.

#### 6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Wear a respirator and appropriate Personal Protective (See Exposure

Controls/Personal Protective Section). Size of spill shall determine respiratory protection from air purifying to self contained breathing apparatus. Keep unnecessary and unprotected personnel from entering the spill area. Extinguish or remove all ignition sources. 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 vapors from heated material. Avoid contact with eyes, skin and clothing. Use with adequate

ventilation. Ground containers.

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:** Exhaust ventilation is necessary control airborne levels and any potential exposures.

Personal protection:

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

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

cartridge is recommended under certain circumstances where airborne concentrations are expected

to be elevated.

Compatible chemical resistant gloves. Protective outer garment, apron. Sleeves as appropriate. Face Skin:

shield is recommended when there is a possibility for splash hazards.

Other: Eyewash fountain in work area. Avoid the use of contact lenses.

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:** 84 C (183 F) Odor: Slight characteristic odor. **Melting Point:** Not applicable **Specific Gravity:** 0.88 pH: Not applicable **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, oxidizing agents, strong reducing agents.

**Incompatible Materials:** Excessive heat **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: Methyl ethyl ketone LD50 Oral, rat, 2,737 mg/kg

LD50 Dermal, rabbit, 6,480 mg/kg

#### **ECOLOGICAL INFORMATION 12**.

Product not tested.

# 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.

Shipping Name: UN 1993, Flammable Liquid, N.O.S., 3, PG II (methyl ethyl ketone, isopropanol)



North American Emergency Guide Book - Guide # 128

# 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).

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-2000 and NOM-010-STPS-1999.

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

SARA 313 Listing - 40 CFR 372.65 - Methyl Ethyl Ketone CAS# 78-93-3

All ingredients are listed on the EPA TSCA Inventory.

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

R11 Highly Flammable

R42/43 May cause sensitization by inhalation and skin contact

R66 Repeated exposure may cause skin dryness or cracking

R67 Vapors may cause drowsiness and dizziness

# **Safety Phrases:**

S16 Keep away from sources of ignition – No Smoking

S20/21 When using do not eat, drink or smoke S23 Do not breathe fumes/gas/vapor/spray

S24/25 Avoid contact with skin and eyes

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

S7 Keep container tightly closed

# **16. OTHER INFORMATION**

HMIS Hazard Rating: Health: 2

Fire: 3 Physical Hazard: 0

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