



## INDIUM CORPORATION OF AMERICA

®\EUROPE®\ASIA-PACIFIC®\INDIUM CORPORATION (SUZHOU) ®

### SAFETY DATA SHEET

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** 1095-NF

**SDS Number:** SDS-HG006

**Revised Date:** 26 JANUARY 2016

**Product Use:** Industrial use – mixture - Wave Solder Flux (liquid flux)

#### MANUFACTURER:

##### In America:

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## 2. HAZARDS IDENTIFICATION

### PRIMARY ROUTES OF ENTRY:

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

### Carcinogen listed in

GHS:



Signal Word: Danger

### Hazard statement(s)

H225            Highly flammable liquid and vapor  
 H319            Causes serious eye irritation  
 H335            May cause respiratory irritation  
 H336            May cause drowsiness or dizziness  
 H412            Harmful to aquatic life with long lasting effects

### 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            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 – isopropyl alcohol  
 Serious eye damage/eye irritant – Category 2  
 Flammable liquids - Category 2  
 Specific target organ systemic toxicity (single exposure) – Category 3

### POTENTIAL HEALTH EFFECTS:

**Eye Contact:**    Vapors may be irritating, liquid may damage eye tissue.  
**Ingestion:**        May result in gastric disturbances.  
**Inhalation:**        May cause throat irritation, headache and nausea.  
**Skin Contact:**    May cause irritation.  
**Chronic:**            Not established.

**NOTE:** The Indium Corporation does not recommend, manufacture, market or endorse any of its products for human consumption.

**WARNING:** Applicable in the State of California: This product contains chemicals known to the State of California to cause cancer and/or birth defects (or other reproductive harm). (trace levels of contaminants not intentionally added)

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	% wt	CAS Registry #	PEL mg/m <sup>3</sup>	TLV-TWA mg/m <sup>3</sup>	TLV-STEL mg/m <sup>3</sup>
ISOPROPANOL	75-85	67-63-0 (US)	980	983	1230
		(EU)	N.E.	999	1250
		(Canada)	N.E.	983	1228
		(Mexico)	N.E.	980	1225
		(Singapore)	983	-	1230
		(China)	-	350	700
PROPRIETARY	10-15	-	N.E.	N.E.	N.E.
SURFACTANT	5-10	9003-11-6	N.E.	N.E.	N.E.

N.E. = Not established

### 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:** 54 F(12C)      **Method:** Closed Cup
- Auto-ignition Temperature:** None
- Flammable Limits:** Upper: 12 Lower: 2
- Extinguishing Media:** Use extinguishers appropriate for the surrounding fire conditions (water/dry chemical).

**Special Fire Fighting**

Wear standard fire fighting equipment.

**Procedures:****6. ACCIDENTAL RELEASE MEASURES**

**Spill or Leak Procedures:** Do not allow chemical material to enter sewer system or waterway. Eliminate sources of ignition. Contain spill and absorb if possible. Wear personal protective equipment. Dispose of following all Federal, State and Local regulations.

**7. HANDLING AND STORAGE**

**Handling Precautions:** Keep containers tightly closed when not in use. Use care to avoid spills. Wear personal protective equipment. Ground containers. Keep away from sources of ignition.

**Storage Precautions:** Store product in tightly capped original containers in a cool, dry and ventilated area. Refer to product label for specific storage temperature requirements. Rotate stock to ensure use before expiration date on the label. Store away from sources of ignition.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Engineering Controls:** Face velocity >2.1 cubic feet/minute in confined areas. Ventilation should be sufficient to reduce exposure to below exposure levels.

**Personal protection:**

**Eyes:** Chemical safety glasses/splash goggles/face shield.

**Respirator:** A NIOSH approved or EU compliant CE 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 for isopropanol.

**Other:** Lab coat, eye-wash fountain in work area. Avoid the use of contact lenses in high fume/splash areas.

**Work/Hygienic Practices:** Maintain good housekeeping. Clean up spills immediately.

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, light yellow

**Odor:** Alcoholic odor.

**Specific Gravity:** 0.838 @ 77F

**Vapor Pressure:** 31 mm HG @25°C

**Vapor Density:** >1

**Boiling Point:** (180°F)

**Melting Point:** Not applicable

**pH:** 6.5 (as is) 7.0 (1% solution)

**Solubility in Water:** Soluble

**10. STABILITY AND REACTIVITY**

<b>General:</b>	Stable.
<b>Conditions to Avoid:</b>	Direct heat, open flames and storage in aluminum.
<b>Incompatible Materials:</b>	Strong alkali, halogens, phosphorus, monomers, aldehydes & trichlorides
<b>Hazardous Decomposition / Combustion:</b>	Carbon dioxide/carbon monoxide.
<b>Hazardous Polymerization:</b>	Will not occur.

**11. TOXICOLOGICAL INFORMATION**

<b>Carcinogenicity:</b>	<b>NTP:</b> No		
	<b>OSHA:</b> No		
	<b>IARC:</b> No		
<b>LD50:</b>	Not established.	<b>LC50:</b>	Not established.

RTECS: Isopropyl alcohol NT8050000

**12. ECOLOGICAL INFORMATION**

Biodegradability: Data not established on product.

Aquatic Toxicity: Data not established on product

Product contain a chemical ingredient that is toxic to aquatic environment. May cause long term adverse effects in the aquatic environment.

Isopropyl alcohol – 4396 mg/kg (rat) LD50 oral/ 12800 mg/kg (rat) LD50 dermal/ 72.6 mg/l (rat) 4h LC50 inhalation

**13. DISPOSAL CONSIDERATION**

<b>Waste Disposal Method:</b>	Dispose of in accordance with all Federal, State and Local environmental regulations. In Europe follow the Special Waste Regulations. Contains 3% of an ingredient that is harmful to the environment. Product is flammable and generally is disposed of as hazardous waste.
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## 14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements.

Shipping Name: UN1219, Isopropanol, 3, PG II

North America Emergency Guide Book: Guide Page #129



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

WARNING (Applicable in the State of California): This product contains chemicals known to the State of California to cause cancer and/or birth defects (or other reproductive harm). Safe Drinking Water Standard.

Trace levels not intentionally added: ethylene oxide, propylene oxide, 1,4 dioxane

SARA 313 Listing - 40 CFR 372.65: Trace levels of ethylene oxide, propylene oxide, 1,4 dioxane

All ingredients are listed on the EPA TSCA Inventory.

Ingredients are listed on the Canadian Domestic Substance List.

**16. OTHER INFORMATION**

**HMIS Hazard Rating:**

<b>Health:</b>	2
<b>Fire:</b>	3
<b>Reactivity:</b>	0

**Revised Date:** 26 JANUARY 2016

**Prepared by:** Nancy Swarts, Indium Corporation of America

**Approved by:** Nancy Swarts, Indium Corporation of America

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