

# INDIUM CORPORATION OF AMERICA ®\EUROPE®\ASIA-PACIFIC® **INDIUM CORPORATION (SUZHOU)** ®

To better serve all of our customers Indium Corporation has generated one MSDS, for this product, to be used within the United States as well as internationally. Some of the regulatory information contained within may not be applicable to the customer's individual state or country. Unless otherwise stated the health and safety information provided within is applicable to all products.

# SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: NC-771 SDS Number:

SDS-IN LF013

Revised Date: 1 APRIL 2014

Product Use: Industrial Use - Liquid Flux

### **MANUFACTURER:**

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#### In Asia:

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### 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



NC-771

2. HAZARD	S IDENTIFIC	ATION					
PRIMARY ROUTES OF ENTRY: Carcinogen listed in							
Eye	$\sqrt{1}$ Inhalation	$\sqrt{Skin}$	Ingestion	NTP	IARC	OSHA	Not Listed
GHS:							
Signal Word: Dang	er						
H316 Ca H319 Ca	s: ghly Flammable uses mild skin uses serious e ay cause drows	irritation ye irritation					
P233 P240 P261 P270 P273 P280 P362 P301 +P314 P302 +P352 P304 + 341 for	Keep away fro Keep containe Ground contain Avoid breathin Do not eat, drin Avoid release Wear protectiv Take off conta IF SWALLOW IF ON SKIN: W IF INHALED: If breathing IF IN EYES: R propyl alcohol gory 2A) - (Category 2) egory 3)	r tightly clos her and rece g dust/fume, hk or smoke to the envirc e gloves/pro minated clot ED: Get Meo /ash with ple breathing is	eiving equipment /gas/mist/vapors/s when using this p onment otective clothing/e hing and wash be dical advice/attent enty of soap and v difficult, remove ously with water f	spray product fore reuse ion if you f vater victim to fro or several	on/face prote eel unwell. esh air and k minutes (15 r	ection eep at rest i mins)	in a position comfortable
POTENTIAL HE	EALTH EFFEC	TS:					
Eye Contact:	•		if not removed pro e in contact with t		y result in se	rious eye in	jury. Do
Ingestion:	May cause in	ritation.					
Inhalation:		ute effects t					/ cause drowsiness and are alcoholic intoxication

Skin Contact:

Chronic: Isopropyl alcohol target organs: nerves/kidneys. Otherwise not established.

May cause skin irritation.

Note: The Indium Corporation does not recommend, manufacture, market or endorse any of it's product's for human consumption.

3. COMPOSITION / INFORMATION ON INGREDIENTS						
Components	% wt	CAS Registry #/EINECS	PEL mg/m³	TLV-TWA mg/m³	TLV-STEL mg/m <sup>3</sup>	
2-PROPANOL						
(ISOPROPYL ALCOHOL)	85-95	67-63-0/200-661-7				
		(US)	980	983	1230	
		(EU)	N.E.	999	1250	
		(Canada)	N.E.	983	1228	
		(Singapore)	983	-	1230	
		(Mexico)	-	980	1225	
		(China)	-	350	700	
PROPRIETARY	5-15		N.E.	N.E.	N.E.	
Symbol: XI, F		Risk Phrases: R11, R36, R67				
PRODUCT DC	DES NOT	CONTAIN ANY EU SUBSTAN	CES OF VE	ERY HIGH CONCERN (	(SVHC)	
N.E. = Not established E	U = Euro	pean Union Occupational Expos	sure			

### 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:	16°C(60°F)	Method:	Closed cup equilibrium method.	
Auto-ignition Temperature:		Not established.		
Flammable Limits:		Flammable, limits no	ot established	

6. ACCIDENTAL RELEAS	E MEASURES
Spill or Leak Procedures:	Wear a respirator and appropriate personal protection (See Exposure Controls/Personal Protective Section). Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Do not allow to enter waterway. Keep flame away or other sources of ignition. Dispose of following all Federal, State and Local regulations. In the EU refer to the Waste assessment rules.

# 7. HANDLING AND STORAGE

Handling Precautions:	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. Ground containers for static protection.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:	Local exhaust ventilation may be necessary to control any air contaminants to within their
	exposure limits during the use if thus product. Additionally, the odor threshold of isopropyl
	alcohol is 50 ppm and ventilation may be required to keep annoyance odors to the
	minimum levels. Ventilation is recommended when heating product. Use non - sparking
	tools and equipment.

Personal protect	stion:
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 under certain circumstances where airborne concentrations are expected to be elevated.
Skin:	Compatible chemical resistant gloves(nitrile). Protective outer garment, apron and sleeves as appropriate.
Other:	Eyewash 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. Avoid eating, smoking or drinking in the work area. Wash hands thoroughly with soap and water immediately upon leaving the work area.

9. PHYSICAL AN	D CHEMICAL PROPERTI	ES		
Appearance:	Clear Liquid mixture	<b>Boiling Point:</b>	Not applicable.	
Odor:	Mild alcoholic odor.	Melting Point:	Not applicable	

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Specific Gravity:	0.8255		
Vapor Pressure:	Not applicable.	Solubility in Water:	Soluble
Vapor Density:	(air=1) Not applicable.		

10. STABILITY AND READ	0. STABILITY AND REACTIVITY		
General:	Stable.		
Conditions to Avoid:	Open flame or other sources of ignition and high temperatures. Acids, halogens, aluminum and oxidizing agents.		
Hazardous Decomposition / Combustion:	Elemental oxides		
Hazardous Polymerization:	Will not occur.		

11.	<b>TOXICOLOGICAL INFORMATION</b>
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Carcinogenicity: NTP: No OSHA: No IARC: No

Oral LD50 (isopropyl alcohol) LD50 Oral- rat- 5,045 mg/kg Inhalation LC50 (isopropyl alcohol) LC50 inhalation-rat-8h-16000 ppm Dermal LD50 LD50 – Dermal- rabbit-12,800 mg/kg

RTECS: Isopropyl alcohol NT8050000

## 12. ECOLOGICAL INFORMATION

Product not tested.

LC50-Pimephales promelas (fathead minnow)- 9,640 mg/l – 96h (isopropyl alcohol)

EC50-Daphnia magna (water flea) – 5,102 mg/l – 24h (isopropyl alcohol)

# 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. Recycle or dispose of as hazardous waste.

### 14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements.

Shipping Name: UN1219, Isopropanol ,3, PG II

Marine Pollutant: No



North American Emergency Guide Book 2012: Guide #129 Marine Pollutant: No

### Shipping small quantities: Ground ONLY

40 CFR 173.150 - Exceptions for Class 3 (Flammable Liquids). Limited quantities of flammable liquids, Class 3, are excepted from labeling requirements for <u>ground shipment only</u>. For Packing Group II, inner packaging not over 5.0L (1.3 gallons) net capacity each, packed in a strong outer packaging.

40 CFR 172.203 – Limited quantities- when a shipping paper is required the description for a material offered for transportation as "limited quantity" must include the words "Limited Quantity" following the basic description.

Shipping: UN 1219, Isopropanol, 3, PG II (Limited Quantity) (mixture)

Review 40 CFR for clarification and further information.

Shipping via aircraft requires compliance with the regulations and not under exceptions.

### **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 complies with the requirements under the EU Directive 2002/95/EC (RoHS).

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 under the Mexican regulations NOM-018-STPS-2000 and NOM-010-STPS-1999.

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

SARA 313 Listing - 40 CFR 372.65 - None

All ingredients are listed on the EPA TSCA Inventory.

EC Classification, Packaging and Labeling Requirements:

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Symbol and Hazard Classification of Product		
XI, F		
Risk Phrases:		
R11	Highly Flammable	
R36	Irritating to eyes	
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	
S28	After contact with skin wash immediately with plenty of soap and water	
S62	If swallowed, do not induce vomiting seek medical advice immediately and show container or label	
S7	Keep container tightly closed	

### **16. OTHER INFORMATION**

HMIS Hazard Rating:	Health:	2	
	Fire:	3	
	Reactivity:	0	
Revised Date:	1 APRIL 2014		
Prepared by:	Nancy Swarts,	Indium Corporation of America	
Approved by:	Nancy Swarts, Indium Corporation of America		

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Note: This MSDS may be translated into an international language. If there is any misinterpretation or misunderstanding of any words or phases that may occur within any translation the <u>ENGLISH</u> language shall always prevail.