

# 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

MSDS Number: MSDS-IN LF013 Revised Date: 2 AUGUST 2011

**Product Use:** Industrial Use - Liquid Flux

#### **MANUFACTURER:**

In America:

The Indium Corporation of America 1676 Lincoln Ave., Utica NY 13502 Information: (315) 853-4900 nswarts@indium.com

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Jiangsu Province, China 215126 Information: (86) 512-6283-4900



#### 2. HAZARDS IDENTIFICATION

# **PRIMARY ROUTES OF ENTRY:**

Carcinogen listed in

 $\sqrt{}$  Eye  $\sqrt{}$  Inhalation  $\sqrt{}$  Skin  $\sqrt{}$  Ingestion NTP IARC OSHA  $\sqrt{}$  Not Listed

GHS:





Signal Word: Danger Hazard Statements:

H225 Highly Flammable liquid and vapor
 H319 Causes serious eye irritation
 H336 May cause drowsiness or dizziness

Precautionary statement(s)

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

P233 Keep container tightly closed

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 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

#### **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 cause irritation and damage to the mouth, esophagus and gastrointestinal tract.

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

respiratory tract. Vapors may cause drowsiness and dizziness. Acute effects to high levels of

isopropyl alcohol through inhalation are alcoholic intoxication and narcosis.

**Skin Contact:** May cause skin irritation.

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

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	<b>PEL</b> mg/m³	TLV-TWA mg/m³	TLV-STEL mg/m³
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, R36/37/38

PRODUCT DOES NOT CONTAIN ANY EU SUBSTANCES OF VERY HIGH CONCERN (SVHC)

N.E. = Not established EU = European Union Occupational Exposure

#### 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(60°F) Method: Closed cup equilibrium method.

Auto-ignition Temperature: Not established.

Flammable Limits: Flammable, limits not established

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

Special Fire Fighting Firefighters must wear NIOSH approved self-contained breathing apparatus and full

**Procedures:** protective clothing.

#### 6. ACCIDENTAL RELEASE 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. 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.

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 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 under certain circumstances where airborne concentrations are expected

to be elevated.

**Skin:** Compatible chemical resistant gloves. 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 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:Clear LiquidBoiling Point:Not applicable.Odor:Mild alcoholic odor.Melting Point:Not applicable

Specific Gravity: 0.8255

Vapor Pressure: Not applicable. Solubility in Water: Soluble

Vapor Density: (air=1) Not applicable.

# 10. 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. TOXICOLOGICAL INFORMATION

Carcinogenicity: NTP: No

OSHA: No IARC: No

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

RTECS: Isopropyl alcohol NT8050000

## 12. ECOLOGICAL INFORMATION

This section is subject to future development.

Product not tested.

WGK Germany (water hazard class) Class 1

# 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, PGII



North American Emergency Guide Book 2004: 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.).

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:

Symbol and Hazard Classification of Product

XI. F

#### **Risk Phrases:**

R11 Highly Flammable

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

## **Safety Phrases:**

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

S20/21 When using do not eat, drink or smokeS23 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

Reactivity:

Revised Date: 2 AUGUST 2010

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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.