

To better serve all of our customers Indium Corporation has generated one SDS, 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: 19 NOVEMBER 2018

Product Use: Industrial Use - Liquid Flux

MANUFACTURER:

In America:

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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

P240 Ground container and receiving equipment

H242 Use only non-sparking tools

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 +P364 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:

Eye irritant – (Category 2A)

Flammable liquids - (Category 2)

Specific target organ systemic 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 cause irritation.

Inhalation: Heated vapor concentrations may be 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	PEL mg/m³	TLV-TWA mg/m³	TLV-STEL mg/m³	
2-PROPANOL			9,	g/	9	
(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.	
N.E. = Not established	EU = Euro	pean Union Occupational Expo	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 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. 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

HandlingKeep 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 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(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 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 Liquid mixture Not applicable. **Boiling Point:** Mild alcoholic odor. **Melting Point:** Odor: Not applicable **Specific Gravity:** 0.8255 Flash Point: 16C (60F) **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

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 international regulations and requirements.

Shipping Name: UN1219, Isopropanol, 3, PG II

Marine Pollutant: No

FLAMMABLE 3

North American Emergency Guide Book: 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 ground shipment only. 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.).

SARA 313 Listing - 40 CFR 372.65 - None

All ingredients are listed on the EPA TSCA Inventory.

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-2015 and NOM-010-STPS-2014.

Malaysia

This product has been classified in accordance with: Malaysian – OCCUPATIONAL SAFETY AND HEALTH (CLASSIFICATION, LABELING AND SAFETY DATA SHEET OF HAZARDOUS CHEMICALS) REGULATION OCTOBER 2013 – (CLASS).

Regulatory Information China:

GB/T 16483-2008, GB/T 17519-2013, Safety Data Sheets for Chemical Products

GB 30000.2-29-2013, Rules for classification and labeling of chemicals (GHS)

Decree No. 591: Regulations on the Control Over Safety of Hazardous Chemicals.

This product has been classified using the Chinese Occupational Exposure Limit for Hazardous Agent in the Workplace, GBZ2-2007.

16. OTHER INFORMATION

HMIS Hazard Rating: Health: 2

Fire: 3 Reactivity: 0

Revised Date: 19 NOVEMBER 2018

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Approved by: Nancy Swarts, Indium Corporation of America

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