

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

# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: WS3401 FLUX

SDS Number: SDS-4390 Revised Date: 3 OCTOBER 2014

Product Use: INDUSTRIAL USE (MIXTURE) - LIQUID FLUX (WATER WASH)

#### **MANUFACTURER:**

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#### 2. HAZARDS IDENTIFICATION

#### PRIMARY ROUTES OF ENTRY:

Carcinogen listed in

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

GHS Classification:





Signal Word: Danger

Hazard statement(s)

H225 Highly Flammable liquid and vapor

H315 Causes skin irritation

H319 Causes serious eye irritation
H335 May cause respiratory 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/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 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)

Flammable Liquid- Category 2 Eye irritation- Category 2A Skin irritation- Category 3

#### POTENTIAL HEALTH EFFECTS/EXPOSE:

**Eye Contact:** Vapors may be irritating, liquid may damage eye tissue, and causes irritation to eyes.

**Ingestion:** If swallowed may cause irritation or with overexposure persistent nausea, vomiting and abdominal

pain.

**Inhalation:** If inhaled may cause irritation to respiratory system. Vapor may cause headaches and or dizziness.

**Skin Contact:** Prolonged direct contact may cause dryness and irritation.

**Chronic:** Not established. No information available.

**Signs and Symptoms of Exposure**: Central nervous system depression, prolonged or repeated exposure can cause: nausea, headache, vomiting, narcosis, drowsiness. Overexposure may cause mild, reversible liver effects.

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 #	<b>PEL</b> mg/m³	TLV-TWA mg/m³	TLV-STEL mg/m³
ISOPROPANOL	38 - 45	67-63-0 (US)	980	983	1225
( PROPAN-2-OL)		(EU)	-	999	1250
(IPA)		(Canada)	-	983	1228
		(Singapore)	983	-	1230
		(Mexico)	-	980	1225
		(China)	-	350	700
FATTY ACIDS, C6-12	10-15	67762-36-1	N.E.	N.E	N.E.
POLYGLYCOL ETHER	18-36	9038-95-3	N.E.	N.E.	N.E.
ALCOHOL C6-C12	4 – 34	68603-15-6	N.E.	N.E.	N.E.
Overskalt Vi E					

Symbol: Xi, F Risk Phrases: R36/37/38, R11, R67 N.E. = Not established EU = European Exposure Limits

Product does not contain any EU REACH Substances of Very High Concern (SVHC)

Product does not contain any substances classified as carcinogens.

#### 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: 71F (22C) Method: Closed Cup

Auto-ignition Temperature: Not Available Flammable Limits: Not Available

**Extinguishing Media:** Dry chemical, Water or CO<sub>2</sub>. Use extinguishers appropriate for the surrounding fire

conditions.

**Special Fire Fighting** 

**Procedures:** Wear protective clothing and self-contained breathing apparatus. Use water to cool fire

exposed containers. Flammable vapors may travel great distances to ignition source and flash back.

## **6. ACCIDENTAL RELEASE MEASURES**

**Spill or Leak Procedures:** DO NOT allow material to enter sewer system or waterway. Wear personal protective equipment. Eliminate sources of ignition. Ventilate area in accordance with regulations. Adsorb spilt material. Or cover with absorbent material and then clean up. Do not throw into regular trash bins. 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. Wear personal

**Precautions:** protective equipment. Ground containers. Keep away from sources of ignition.

Storage Precautions: Store product in tightly capped original containers in a cool, dry area. Refer to product

label for specific storage temperature requirements. Rotate stock to ensure use before

expiration date on the label. Keep away from heat and flame.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Face velocity >2.1 cubic feet/minute in confined areas. Exhaust ventilation is advised to keep exposures as low as possible.

#### 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 where airborne concentrations are expected to be elevated. Confined

areas may require additional protection.

**Skin:** Compatible chemical resistant gloves. Use gloves such as nitrile, which are compatible with alcohols.

Other: Lab coat, eye-wash 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:** 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 flux Boiling Point: >89C (does not vaporize)

Odor: Alcohol odor. Evaporation Rate: Not available

Specific Gravity: Not available pH: Not applicable ( no pH value)

(not corrosive)

Vapor Pressure: Not available Solubility in Water: Dissolves in water

Vapor Density: Not available

#### 10. STABILITY AND REACTIVITY

General: Stable.

**Conditions to Avoid:** Direct heat, open flames and storage in aluminum.

**Incompatible Materials:** Combustible materials, oxidizing materials

**Hazardous Decomposition /** 

Carbon dioxide/carbon monoxide.

Combustion:

Hazardous Polymerization: Will not occur.

#### 11.TOXICOLOGICAL INFORMATION

Carcinogenicity: National Toxicity Program NTP: No

Occupational Safety & Health Administration **OSHA**: No International Agency for Research on Cancer **IARC**: No

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

Product mixture not tested.

Isopropyl alcohol-RTECS: NT8050000

Signs and Symptoms of Exposure: Central nervous system depression, prolonged or repeated exposure can cause: nausea, headache, vomiting, narcosis, drowsiness. Overexposure may cause mild, reversible liver effects.

Specific target organ toxicity: May cause drowsiness or dizziness.

LD50 Oral - rat- 5,045 mg/kg

Inhalation LC50 – rat- 8h- 16000 ppm Dermal LD50 – rabbit – 12,800 mg/kg Skin corrosion- rabbit- mild skin irritant

Serious eye irritant/eye damage- eyes-rabbit – eye irritation- 24h

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Polyglycol ether – RTECS: MD0911000

LD50-oral-rat-12,792 mg/kg

LD50-dermal-rabbit >20,800 mg/kg

Product not classified as a carcinogen. Product does not contain any carcinogenic substances.

## 12. ECOLOGICAL INFORMATION

Product mixture not tested.

Isopropyl alcohol -

Toxicity to fish: LC50-pimephales promelas (fathead minnow) - 9,640 mg/l - 96h

Toxicity to algae: EC50 – desmodesmus subspicatus (green algae) > 2,000 mg/l – 72h

Product is not classified as harmful to the environment.

#### 13. DISPOSAL CONSIDERATION

**Waste Disposal Method:** Dispose of in accordance with all Federal, State and Local environmental regulations.

Flammable materials are considered hazardous waste. Contact a permitted

environmental waste disposer.

In Europe follow the Special Waste Regulations.

## 14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements.

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



North America Emergency Guide Book - Guide #129

Marine Pollutant: No

#### 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.

SARA 313 Listing - 40 CFR 372.65: none

All ingredients are listed on the EPA TSCA Inventory.

All ingredients are listed on the Korean Inventory of Existing Chemicals (KECL)

Ingredients are listed on the following countries chemical lists:

EU/Canada (DSL)/China

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 Agents in the Workplace, GBZ2-2002.

#### Taiwan:

This product contains a substance listed as a harmful material: isopropyl alcohol, a substance listed in the Regulations of Labeling and Hazard Communication of Dangerous and Harmful Materials under Attachment II. This is so specified under the Taiwan Regulations for Governing Prevention of Organic Solvent Toxication.

This product does not contain any other listed or known listed hazardous material found in Attachment II of the Regulations for Governing Prevention of Organic Solvent Toxication.

This product contains a substance, isopropyl alcohol a flammable liquid, classified as a Hazardous Material under Attachment I in Article 2. Paragraph 1, Item 1, of the Regulations of Labeling and Hazardous Communication of Dangerous and Harmful Materials.

This product does not contain any substances classified as Taiwan Precursor chemicals.

This product does not contain any other substances found on either the first or second stage listings of chemical substances found in the Regulations of Labeling and Hazard Communication of Dangerous and Harmful Materials.

This msds was developed following the guidelines of GHS and the Taiwan National Standard 15030 which has adopted those principles.

This product does not contain any Taiwan listed toxic classified substances.

Product does not contain any listed EU REACH Substances of Very High Concern.

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

R 11 Highly Flammable

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

S24/25 Avoid contact with skin and eyes

S28 After contact with skin wash immediately with plenty of soap and water

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 Reactivity: 0

Revised Date: 3 OCTOBER 2014

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