



INDIUM CORPORATION OF AMERICA® EUROPE® ASIA-PACIFIC®  
INDIUM CORPORATION (SUZHOU)®  
**SAFETY DATA SHEET**

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** WS3518 FLUX

**SDS Number:** SDS- 4660

**Revised Date:** 25 JANUARY 2015

**Product Use:** Industrial Use - Water wash 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  
 H315            Causes skin irritation  
 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  
 P242            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            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:

Flammable Liquid – Category 2

Eye irritation – Category 2A

Skin irritant- Category 2

Acute aquatic toxicity-Category 3

Chronic aquatic toxicity- Category 3

Specific target organ 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 harmful if inhaled. May cause irritation.

**Skin Contact:**     Causes skin irritation.

**Chronic:** Not established.

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

**Warning:** This product may contain(s) a chemical(s) known to the State of California to cause cancer and/or birth defects (or other reproductive harm). (Contains trace levels of ethylene oxide and 1, 4 dioxane 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>
POLYGLYCOL ETHER	18-30	9038-95-3	N.E.	N.E.	N.E.
ISOPROPYL ALCOHOL	24-28	67-63-0 (US)	980	983	1225
		(EU)	-	999	1250
		(Canada)	-	983	1228
		(Mexico)	980	-	1225
		(Singapore)	983	-	1230
		(China)	-	350	700
CARBOXYLIC ACIDS	3 – 15	70248-25-8	N.E.	N.E.	N.E.
ALCOHOL	25 – 38	68603-15-6	N.E.	N.E.	N.E.
PROPRIETARY ACTIVATORS	2-7	-	N.E.	N.E.	N.E.

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

**PRODUCT DOES NOT CONTAIN ANY EU REACH SUBSTANCES OF VERY HIGH CONCERN**

### 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

<b>Flash Point:</b>	11C(52 F)	<b>Method:</b>	Closed cup
<b>Auto-ignition Temperature:</b>	Not established.		
<b>Flammable Limits:</b>	Limits not established		
<b>Extinguishing Media:</b>	Use extinguishers appropriate for the surrounding fire conditions. Foam, dry chemical, water spray.		
<b>Special Fire Fighting Procedures:</b>	Firefighters must wear NIOSH approved self-contained breathing apparatus and full protective clothing.		

## 6. ACCIDENTAL RELEASE MEASURES

<b>Spill or Leak Procedures:</b>	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. Keep away from sources of ignition. Keep unauthorized personnel away. Dispose of following all Federal, State and Local regulations. In the EU refer to the Special Waste Regulations.
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## 7. HANDLING AND STORAGE

<b>Handling Precautions:</b>	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.
<b>Storage Precautions:</b>	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.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering Controls:</b>	Local exhaust ventilation is necessary to control airborne levels and keep exposures to as low as possible. Use ventilation.
<b>Personal protection:</b>	
<b>Eyes:</b>	Chemical safety glasses/goggles. Face shield for slash hazards
<b>Respirator:</b>	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.
<b>Skin:</b>	Compatible chemical resistant gloves such, as nitrile should be worn. Protective outer garment, apron and sleeves as appropriate.
<b>Other:</b>	Eyewash fountain in work area. Avoid the use of contact lenses in high fume/splash areas.
<b>Work/Hygienic Practices:</b>	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 AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Flux	<b>Boiling Point:</b>	Not established
<b>Odor:</b>	Slight characteristic odor.	<b>Melting Point:</b>	Not applicable
<b>Specific Gravity:</b>	Not established	<b>pH:</b>	Not applicable
<b>Vapor Pressure:</b>	Not applicable.	<b>Solubility in Water:</b>	Water Soluble
<b>Vapor Density:</b>	(air=1) Not applicable.		

**10. STABILITY AND REACTIVITY**

<b>General:</b>	Stable.
<b>Conditions to Avoid:</b>	High temperatures, open flame.
<b>Incompatible Materials:</b>	Not established
<b>Hazardous Decomposition / Combustion:</b>	Not established
<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.

Contains substances that are harmful to the aquatic environment with long lasting effects.

**12. ECOLOGICAL INFORMATION**

Product not tested.

**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.

**14. TRANSPORT INFORMATION**

Transport in accordance with applicable regulations and requirements.  
UN1219, Isopropanol, 3, PG II (mixture)



North American Emergency Guide Book – #129      Flammable Liquid

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 Mexican regulations: 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 irritant 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 in accordance with the Chinese Occupational Exposure Limit for Hazardous Agents in the Workplace, GBZ2-2002.

California Prop 65 (Safe Drinking Water Standard): This product may contain a chemical(s) known to the State of California to cause cancer and/or birth defects (or other reproductive harm).

(Trace amounts of: ethylene oxide CAS# 75-21-8 and 1,4 dioxane CAS# 123-91-1)

SARA 313 Listing - 40 CFR 372.65 (trace levels of ethylene oxide and 1, 4 dioxane) and 25% proprietary alcohol

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:

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

R11 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/gas/vapor/spray

S24/25 Avoid contact with skin and eyes

S7 Keep container tightly closed

**16. OTHER INFORMATION**

**HMIS Hazard Rating:**

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

**Revised Date:** 25 JANUARY 2015

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

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

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