



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

**SAFETY DATA SHEET**

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** WS 3543-A FLUX

**SDS Number:** SDS-4770

**Revised Date:** 8 MARCH 2016

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

**MANUFACTURER:**

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## 2. HAZARDS IDENTIFICATION

### PRIMARY ROUTES OF ENTRY:

⊕Eye    ⊕Inhalation    ⊕Skin    ⊕Ingestion    NTP    Carcinogen listed in IARC    OSHA    ⊕Not Listed

GHS:



Signal Word: Danger

### Hazard Statements:

- H225            Highly Flammable liquid and vapor
- H315            Cause 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 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 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)

### POTENTIAL HEALTH EFFECTS:

- Eye Contact:**    Vapors may be irritating liquid may damage eye tissue, and causes burn or irritates eyes.
- Ingestion:**        May cause irritation if swallowed.
- Inhalation:**        May cause irritation to respiratory system. Vapor may cause headaches and or dizziness.
- Skin Contact:**    Prolonged contact may cause dryness and irritation.
- Chronic:**            Not established.
- 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 #	PEL mg/m <sup>3</sup>	TLV-TWA mg/m <sup>3</sup>	TLV-STEL mg/m <sup>3</sup>
ISOPROPANOL	30-35	67-63-0 (US)	980	983	1225
PROPAN-2-OL		(EU)	-	999	1250
		(Canada)	-	983	1228
		(Singapore)	983	-	1230
		(Mexico)	-	980	1225
		(China)	-	350	700
ALIPHATIC ALCOHOLS C16-18	7 - 30	68439-49-6	N.E.	N.E.	N.E.
FATTY ACIDS, C6-12	10-20	67762-36-1 (US)	N.E.	N.E.	N.E.
PROPRIETARY	Remaining	-	N.E.	N.E.	N.E.

N.E. = Not established

EU = European Exposure Limits

### 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:** 52°F(11C)      **Method:** Closed Cup
- Auto-ignition Temperature:** Not Available
- Flammable Limits:** Not Available      Flammable Product
- 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 Precautions:** Keep containers tightly closed when not in use. Use care to avoid spills. Wear personal protective equipment. Ground containers when in use.

**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 sources of heat and flame. Avoid static build up or charge.

## 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. Isopropyl alcohol requires proper ventilation.

### Personal protection:

**Eyes:** Chemical safety glasses/goggles. Face shield for splash hazards.

**Respirator:** An approved or compliant 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 areas.

**Work/Hygienic Practices:** Maintain good housekeeping. Clean up spills immediately. 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

<b>Appearance:</b>	Liquid flux	<b>Boiling Point:</b>	Not available
<b>Odor:</b>	Alcohol odor.	<b>Evaporation Rate:</b>	Not available
<b>Specific Gravity:</b>	Not available	<b>pH:</b>	N/A
<b>Vapor Pressure:</b>	Not available	<b>Solubility in Water:</b>	Not available
<b>Vapor Density:</b>	Not available		

## 10. STABILITY AND REACTIVITY

**General:** Stable.


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

<b>Incompatible Materials:</b>	Combustible materials, oxidizing materials
<b>Hazardous Decomposition / Combustion:</b>	Carbon dioxide/carbon monoxide.
<b>Hazardous Polymerization:</b>	Will not occur.

<b>11. TOXICOLOGICAL INFORMATION</b>			
<b>Carcinogenicity:</b>	National Toxicity Program Occupational Safety & Health Administration International Agency for Research on Cancer	<b>NTP:</b> <b>OSHA:</b> <b>IARC:</b>	No No No
<b>LD50:</b>	Not established.	<b>LC50:</b>	Not established.

<b>12. ECOLOGICAL INFORMATION</b>	
Product not tested.	

<b>13. DISPOSAL CONSIDERATION</b>	
<b>Waste Disposal Method:</b>	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.

<b>14. TRANSPORT INFORMATION</b>	
Transport in accordance with applicable regulations and requirements. Shipping Name: UN 1219, Isopropanol, 3, PG II (mixture)	
	
North America Emergency Guide Book – Guide #129	Flammable liquid.

<b>15. REGULATORY INFORMATION</b>	
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.

This product has been classified under the Mexican regulations NOM-018-STPS-2000 and NOM-010-STPS-2014.

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

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).

## 16. OTHER INFORMATION

<b>HMIS Hazard Rating:</b>	<b>Health:</b>	2
	<b>Fire:</b>	3
	<b>Physical Hazard:</b>	0

**Revised Date:** 8 MARCH 2016

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

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

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