



## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** WS-446AL-SP

**SDS Number:** SDS-4563

**Revised Date:** 18 APRIL 2018

**Product Use:** INDUSTRIAL USE - WATER WASH TACFLUX

#### MANUFACTURER:

##### In America:

The Indium Corporation of 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 Statements:

H225            Highly Flammable liquid and vapor  
 H316            Causes mild skin irritation  
 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  
 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  
 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:

Serious eye damage/eye irritant – Category 2  
 Flammable liquids - Category 2  
 Skin – Category 3  
 Specific target organ systemic toxicity (single exposure) – Category 3

### POTENTIAL HEALTH EFFECTS:

**Eye Contact:**    Vapors may be irritating, liquid may damage eye tissue.  
**Ingestion:**        May cause persistent nausea, vomiting and abdominal pain. Irritating to digestive tract.  
**Inhalation:**        Vapor may cause headaches and or dizziness. Avoid inhalation of vapors. Irritating to respiratory tract.  
**Skin Contact:**     Prolonged contact may cause irritation.  
**Chronic:**            Over exposure to vapors may be harmful.

**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 #/EINECS#	PEL mg/m <sup>3</sup>	TLV-TWA mg/m <sup>3</sup>	TLV-STEL mg/m <sup>3</sup>
ISOPROPANOL	32-36	67-63-0/200-661-7			
		(US)	980	983	1225
( PROPAN-2-OL)		(EU)	-	999	1250
		(Canada)	-	983	1228
		(Mexico)	980	-	1225
		(China)	-	350	700
		(Singapore)	983	-	1230
PROPRIETARY ALCOHOLS	50-60		N.E.	N.E.	N.E.
NON HAZARDOUS PROPRIETARY ACTIVATORS	10-15	-	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:** 15°C (59°F)      **Method:** Closed Cup

**Auto-ignition Temperature:** No information available

**Flammable Limits:** No information available

**Extinguishing Media:** Water. 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 any materials to enter sewer system or waterway unless authorized to do so. Wear personal protective equipment. Eliminate sources of ignition. Ventilate area in accordance with regulations. 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. Keep away from flame.

**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.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Face velocity >2.1 cubic feet/minute in confined areas. Overall general exhaust ventilation recommended in order to keep exposures to as low as possible.

### Personal protection:

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

**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. Use respiratory protection in confined areas. Air purifying respirators will offer no protection in oxygen deficient areas. Ensure that the protection factors of the respirator are not exceeded.

**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>	Clear	<b>Boiling Point:</b>	No information
<b>Odor:</b>	Alcohol odor.	<b>Evaporation Rate:</b>	No information
<b>Specific Gravity:</b>	1 g/cc	<b>pH:</b>	4 - 8
<b>Vapor Pressure:</b>	No information	<b>Solubility in Water:</b>	Soluble
<b>Vapor Density:</b>	No information	<b>% Volatiles by volume:</b>	No information

## 10. STABILITY AND REACTIVITY

<b>General:</b>	Stable.
<b>Conditions to Avoid:</b>	Direct heat, open flames and storage in aluminum.
<b>Incompatible Materials:</b>	acids/caustics
<b>Hazardous Decomposition / Combustion:</b>	Carbon dioxide/carbon monoxide.
<b>Hazardous Polymerization:</b>	Will not occur.

**11. TOXICOLOGICAL INFORMATION**

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

**12. ECOLOGICAL INFORMATION**

Product not tested.

**13. DISPOSAL CONSIDERATION**

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

**14. TRANSPORT INFORMATION**

Transport in accordance with applicable international regulations and requirements.

UN1219, Isopropanol mixture, 3, PG II



North American Emergency Guide Book – Guide # 129

Label: Flammable

**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.

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

This product has been classified in accordance with 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). (GHS)

In China:

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

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

GB/T 16483-2008, GB/T 17517-2013

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

SARA 313 Listing - 40 CFR 372.65: none

All ingredients are listed on the EPA TSCA Inventory.

**16. OTHER INFORMATION**

<b>HMIS Hazard Rating:</b>	<b>Health:</b>	1
	<b>Fire:</b>	3
	<b>Reactivity:</b>	0

**Revised Date:** 18 APRIL 2018

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

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

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