



## SAFETY DATA SHEET

User must review the contents of this (SDS) and determine what is applicable to their own country laws under Health and Safety and apply them as necessary. This (SDS) will not reference every countries Health and Safety Laws. It is the user's responsibility to determine what is applicable to them, including but not limited to review of any specific chemical lists and apply the requirements as necessary.

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** WS 676 FLUX

**SDS Number:** SDS-5693

**Revised Date:** 12 JULY 2019

**Product Use:** Industrial Use (mixture) - Flux mixture for solder related use.

#### MANUFACTURER:

##### In America:

The Indium Corporation of America®.  
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#### EMERGENCY PHONE:

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<http://www.indium.com>

## 2. HAZARDS IDENTIFICATION

### PRIMARY ROUTES OF ENTRY:

Eye    Inhalation    Skin    Ingestion    NTP

### Carcinogen listed in

IARC    OSHA    Not Listed

GHS:



Signal Word: Warning

#### Hazard statement (s)

H317                      May cause an allergic skin reaction  
 H319                      Causes serious eye irritation

#### Precautionary statement (s)

P233                      Keep container tightly closed  
 P261                      Avoid breathing dust/fume/gas/mist/vapors/spray  
 P264                      Wash thoroughly after handling  
 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:

Sensitisation, skin- Category 1B  
 Serious eye damage/eye irritation- Category 1

### POTENTIAL HEALTH EFFECTS:

**Eye Contact:**      Cause irritation to the eyes. May cause serious irritation.  
**Ingestion:**            May cause irritation. May be harmful if swallowed.  
**Inhalation:**            May cause irritation.  
**Skin Contact:**        May cause skin irritation or sensitization upon contact.



**WARNING:** This product can expose you to chemicals including [trace amounts of 1,4 dioxane, propylene oxide, ethylene oxide] which are known to the State of California to cause cancer and [trace amounts of ethylene oxide] which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**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 #	PEL mg/m <sup>3</sup>	TLV-TWA mg/m <sup>3</sup>	TLV-STEL mg/m <sup>3</sup>
POLYGLYCOL ETHER	40 - 50	9038-95-3	N.E.	N.E.	N.E.
ORGANIC ADDITIVES	44-54	68439-49-6	N.E.	N.E.	N.E.
ALCOHOLS C6-C12	1 - 5	68603-15-6	N.E.	N.E.	N.E.

N.E. = Not established

### 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:** >100C                      **Method:** Not available

**Auto-ignition Temperature:** Not established.

**Flammable Limits:** Limits not established. Not Flammable

**Extinguishing Media:** Use extinguishers appropriate for the surrounding fire conditions.

**Special Fire Fighting Procedures:** Firefighters must wear approved self-contained breathing apparatus and full protective clothing.

### 6. ACCIDENTAL RELEASE MEASURES

**Spill or Leak Procedures:** Wear a respirator and appropriate Personal Protective (See Exposure Controls/Personal Protective Section). Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Ventilate area. Keep unnecessary personnel away from the area. 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. Avoid breathing vapors from heated material. Avoid contact with eyes, skin and clothing. Use with adequate ventilation.

**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. Ambient temperatures.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Good exhaust ventilation or chemical hood should be sufficient to control any contaminate levels especially during heating applications.

**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 or if engineering controls are not available.

**Skin:** Compatible chemical resistant gloves. 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 Practices:** 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>	RED liquid flux	<b>Boiling Point:</b>	Not available
<b>Odor:</b>	mild odor characteristic	<b>Melting Point:</b>	Not applicable
<b>Specific Gravity:</b>	1.1 g/cc	<b>pH:</b>	4 -8
<b>Vapor Pressure:</b>	Not applicable.		
<b>Vapor Density:</b>	(air=1) Not applicable.		

**10. STABILITY AND REACTIVITY**

**General:** Stable                      **Conditions to Avoid:** None known

**Incompatible Materials:** Oxidizing agents, acid chlorides, acid anhydrides

**Hazardous Decomposition / Combustion:** Harmful organic fumes and toxic oxide fumes may form at elevated temperatures.

**Hazardous Polymerization:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**Carcinogenicity:**            **NTP:** No  
    **OSHA:** No  
    **IARC:** No

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

**12. ECOLOGICAL INFORMATION**

Product not tested. No information available.

**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. Material is classified as none hazardous under US EPA guidelines.

## 14. TRANSPORT INFORMATION

Transport in accordance with applicable international regulations and requirements.  
Not regulated as hazardous material. Non -hazardous under all shipping modes.

UN – none

## 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.).

Basic information follows the recommended changes under GHS Globally Harmonized System.



**WARNING:** This product can expose you to chemicals including [trace amounts of 1,4 dioxane, propylene oxide, ethylene oxide] which are known to the State of California to cause cancer and [trace amounts of ethylene oxide] which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

USA SARA 313 Listing - 40 CFR 372.65 - none

All ingredients are listed on the US TSCA Inventory.

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation (CPR).

Canada WHMIS: not classified.

This product has been classified in accordance with the guidelines set by the Dept of Industrial Health of the Republic of Singapore.

All ingredients are listed on the Canadian DSL.

This product has been classified in accordance with 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

**16. OTHER INFORMATION**

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

**Revised Date:** 12 JULY 2019

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

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

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