



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

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: WS 676 FLUX

SDS Number: SDS-5693

Revised Date: 18 SEPTEMBER 2014

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

MANUFACTURER:

In America:

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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: 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 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: 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.

NOTE: **The Indium Corporation does not recommend, manufacture, market or endorse any of it's product's for human consumption.**

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	% wt	CAS Registry #
POLYGLYCOL ETHER	40 - 50	9038-95-3
ORGANIC ADDITIVES	44 - 54	68439-49-6
PROPRIETARY ACTIVATOR	1 - 6	-

PRODUCT DOES NOT CONTAIN ANY REPORTABLE EU SUBSTANCE OF VERY HIGH CONCERN (SVHC)

Symbol: XI

Risk Phrases: R36/37/38 , R43

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

Components	% wt	CAS Registry #	PEL mg/m ³	TLV-TWA mg/m ³	TLV-STEL mg/m ³
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.
PROPRIETARY ACTIVATORS	1 - 5	-	N.E.	N.E.	N.E.

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

Appearance:	RED liquid flux	Boiling Point:	Not available
Odor:	mild odor characteristic	Melting Point:	Not applicable
Specific Gravity:	1.1 g/cc	pH:	4 -8
Vapor Pressure:	Not applicable.		
Vapor Density:	(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 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

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.

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

USA SARA 313 Listing - 40 CFR 372.65 - none

All ingredients are listed on the US TSCA Inventory.
All ingredients are listed on the Canadian DSL

EC Classification, Packaging and Labeling Requirements:

Symbol and Hazard Classification of Product

XI

Risk Phrases:

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

R43 May cause sensitization by skin contact

Safety Phrases:

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

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

16. OTHER INFORMATION

HMIS Hazard Rating:	Health:	1
	Fire:	1
	Reactivity:	0

Revised Date: 18 SEPTEMBER 2014**Prepared by:** Nancy Swarts, The Indium Corporation of America**Approved by:** Nancy Swarts, The Indium Corporation of America

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