



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

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** WF – 7745 WAVE FLUX

**SDS Number:** SDS-5015

**Revised Date:** 21 NOVEMBER 2016

**Product Use:** INDUSTRIAL USE - WAVE SOLDER FLUX

**MANUFACTURER:**

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## 2. HAZARDS IDENTIFICATION

### PRIMARY ROUTES OF ENTRY:

Eye    
  Inhalation    
  Skin    
  Ingestion    
 NTP

### Carcinogen listed in

IARC     OSHA    
  Not Listed

No signal word.

No pictogram

### Precautionary statement(s)

- P233            Keep container tightly closed
- 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
- 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 and liquid may irritate eye tissue.

**Ingestion:**        May cause irritation.

**Inhalation:**        May cause irritation.

**Skin Contact:**    May cause irritation.

**Chronic:**            Not established.

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

**WARNING:**        Applicable in the State of California. Prop 65 Safe Drinking Water Standard. This product contains chemical (s) known to the State of California to cause cancer and/or birth defects (or other reproductive harm). [Contains trace amounts of: propylene oxide/ acetaldehyde/ 1,4 dioxane/ formaldehyde/ ethylene oxide]

## 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>
WATER	75-96	7732-18-5	N.E.	N.E.	N.E.
PROPRIETARY ACTIVATORS	4 - 25	-	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:** >200F                      **Method:** Not applicable

**Auto-ignition Temperature:** Not applicable

**Flammable Limits:** Not applicable

**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.

#### 6. ACCIDENTAL RELEASE MEASURES

**Spill or Leak Procedures:** Do not allow chemical material to enter sewer system or waterway unless allowed 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.

**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. Exhaust ventilation recommended especially during heating and/or spraying activities.

**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 where airborne concentrations are expected to be elevated. Avoid inhalation of product.

**Skin:** Use chemical resistant gloves such as nitrile. Latex gloves not recommended.

**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>	Not determined
<b>Odor:</b>	Mild	<b>Evaporation Rate:</b>	Not determined
<b>Specific Gravity:</b>	1.014 @60F	<b>pH:</b>	2.82
<b>Vapor Pressure:</b>	Not determined	<b>Solubility in Water:</b>	Soluble
<b>Vapor Density:</b>	Not determined		

### 10. STABILITY AND REACTIVITY

**General:** Stable.

**Conditions to Avoid:** Direct heat, open flames.

**Incompatible Materials:** Strong alkali

**Hazardous Decomposition / Combustion:** Carbon dioxide/carbon monoxide.

**Hazardous Polymerization:** Will not occur.

### 11. TOXICOLOGICAL INFORMATION

<b>Carcinogenicity Listed:</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.

Product not tested. Contains <1% of a substance that is a possible risk of harm to an unborn child.

### 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. Non - hazardous under EPA.

**14. TRANSPORT INFORMATION**

Transport in accordance with applicable regulations and requirements. Non - hazardous for shipping.

North America Emergency Guide Book – Not applicable

UN - none

Non hazardous- (ground/IATA/IMDG)

**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.).

SARA 313 Listing - 40 CFR 372.65:

Propylene oxide	75-56-9	<0.000003%
Acetaldehyde	75-07-0	<0.000006%
1,4 Dioxane	123-91-1	<0.000005%
Formaldehyde	50-00-0	<0.000004%
Ethylene oxide	75-21-8	<0.000002%

All ingredients are listed on the EPA TSCA Inventory.

**WARNING:** Applicable in the State of California. Prop 65 Safe Drinking Water Standard. This product contains chemicals known to the State of California to cause cancer and/or birth defects (or other reproductive harm). (trace amounts not intentionally added).

Propylene oxide	75-56-9	<0.000003%
Acetaldehyde	75-07-0	<0.000006%
1,4 Dioxane	123-91-1	<0.000005%
Formaldehyde	50-00-0	<0.000004%
Ethylene oxide	75-21-8	<0.000002%

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

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.

This product has been classified under the Mexican regulations NOM-018-STPS-2015 and NOM-010-STPS-2014.

Regulatory Information China:

GB/T 16483-2008, GB/T 17519-2013, Safety Data Sheets for Chemical Products

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

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

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

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).

RoHS (Restriction of Hazardous Substances): This product complies with the requirements set under the EU Directive 2011/65/EU. This product does not contain any metals or flame - retardants.

## 16. OTHER INFORMATION

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

**Revised Date:** 21 NOVEMBER 2016

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

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

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