



## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** WF-1080-T FLUX THINNER

**SDS Number:** SDS-10005A

**Revised Date:** 2 NOVEMBER 2018

**Product Use:** Industrial Use – Water Soluble Solder Flux

**MANUFACTURER:**

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## 2. HAZARDS IDENTIFICATION

### PRIMARY ROUTES OF ENTRY:

\*Eye      \*Inhalation      \*Skin      \*Ingestion      NTP      IARC      OSHA      \*Not Listed

### Carcinogen listed in

GHS:



Symbol: Warning

#### Hazard statement(s)

H225      Highly flammable liquid and vapor  
 H319      Causes serious eye irritation  
 H360      May damage fertility or the unborn child  
 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/Bond container and receiving equipment  
 P241      Use explosion-proof electrical/ventilating/lighting equipment  
 P242      Use non-sparking tools  
 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  
 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:

Flammable liquids- Category 2  
 Serious eye irritation- Category 2A  
 Reproductive toxicity- 1A  
 Specific target organ toxicity, single exposure; respiratory tract- 3  
 Specific target organ toxicity- single exposure – narcotic effects-3

### POTENTIAL HEALTH EFFECTS:

**Eye Contact:**      Vapors may be irritating, liquid may damage eye tissue.

**Ingestion:**      May result in gastric disturbances such as nausea and vomiting. May be harmful.

**Inhalation:**      May cause throat irritation, headache or dizziness. May be harmful.

**Skin Contact:**      May cause irritation or defatting of the skin with irritation, dryness and cracking.

**Chronic:**      Not established.



**WARNING:** This product can expose you to chemicals including [trace amounts of acetaldehyde, methyl isobutyl ketone] which are known to the State of California to cause cancer and [methanol, methyl isobutyl ketone] which are 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 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>
WATER	10	7732-18-5 (US)	N.E.	N.E.	N.E.
ETHANOL MIXTURE	90	64-17-5(US)	-	1884	-
		(EU)	-	1920	-
		(Singapore)	1880	-	-
		(Mexico)	-	1900	-

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:** 13-16C(55-60F) **Method:** TCC
- Auto-ignition Temperature:** Not available
- Flammable Limits:** Upper limit 19. Lower limit 3.3.
- Extinguishing Media:** Use extinguishers appropriate for the surrounding fire conditions: large fires use alcohol resistant foam/water to cool containers/ small fires use dry chemicals/ CO<sub>2</sub>, water spray or alcohol resistant foam.
- Special Fire Fighting Procedures:** Standard fire - fighting equipment: clothing and SCBA. Alcohol vapors are heavier than air and may travel a considerable distance to a source of ignition 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, such as gloves and depending on the quantity a respirator with organic cartridges may be required. Clean up by absorption. Eliminate sources of ignition. Keep unnecessary personnel away. Put clean-up materials in a properly labeled metal drum. 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 and dispensing equipment. Keep away from sources of ignition.

**Storage Precautions:** Store product in tightly capped original containers in a cool, dry area away from sources of ignition. 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 is required to keep exposure limits as low as possible.

### Personal protection:

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

**Respirator:** An approved or compliant marked air-purifying respirator with a fume/organic chemical cartridge is recommended where airborne concentrations are expected to be elevated or when working in confined areas.

**Skin:** Compatible chemical resistant gloves (rubber/neoprene or vinyl). Latex not recommended.

**Other:** Lab coat, eyewash 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, clear	<b>Boiling Point:</b>	78.5°C (174°F)
<b>Odor:</b>	Alcoholic	<b>Melting Point:</b>	Not applicable
<b>Specific Gravity:</b>	0.822	<b>pH:</b>	7.0
<b>Vapor Pressure:</b>	59.45 hPa	<b>Solubility in Water:</b>	Completely soluble
<b>Vapor Density:</b>	1.6		

## 10. STABILITY AND REACTIVITY

**General:** Stable.

**Conditions to Avoid:** Storage in aluminum. Avoid contact with strong oxidizers, excessive heat, sparks or open flame

**Incompatible Materials:** phosphorus, halogens, anhydrides, monomers, aldehydes, trichlorides  
**Hazardous Decomposition / Combustion:** Carbon dioxide/carbon monoxide.  
**Hazardous Polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

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

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

Product not tested.

Ethanol Oral LD50 >5000 mg/kg, rat

Ethanol Inhalation LC50 > 20 mg/l, rat

Product contains a substance that may cause harm to breast-fed children.

## 12. ECOLOGICAL INFORMATION

Product not tested. Low acute toxicity to fish.

## 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. Flammable liquid.

## 14. TRANSPORT INFORMATION

Transport in accordance with applicable international regulations and requirements.

Shipping: UN 1170, Ethanol Solutions, 3, PG II

North American Emergency Guide Book – Guide #127



UN 1170 Flammable Liquid

## 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 Flammable Division 2  
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 has been classified in accordance with: Malaysian – OCCUPATIONAL SAFETY AND HEALTH (CLASSIFICATION, LABELING AND SAFETY DATA SHEET OF HAZARDOUS CHEMICALS) REGULATION OCTOBER 2013 – (CLASS).

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 the Mexican regulations: NOM – 018-STPS-2015 and NOM-010-STPS-2014.



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SARA 313 Listing - 40 CFR 372.65:

Ethyl Alcohol

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
<b>Revised Date:</b>	2 NOVEMBER 2018	
<b>Prepared by:</b>	Nancy Swarts, Indium Corporation of America	
<b>Approved by:</b>	Nancy Swarts, Indium Corporation of America	

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