



## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

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

**SDS Number:** SDS-5015

**Revised Date:** 23 JULY 2019

**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

GHS



Warning

Hazard statement (s)

H316 Causes mild skin irritation

H320 Causes eye irritation

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)

Classification

Skin irritation- Category 3

Eye irritation- Category 2B

**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. May cause slight burns to the skin with repeated exposure.

**Chronic:** Not established.

**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/m³	TLV-TWA mg/m³	TLV-STEL mg/m³
WATER	75-96	7732-18-5	N.E.	N.E.	N.E.

**PROPRIETARY  
ACTIVATORS**

4 - 25

confidential

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 (weak acid)
<b>Vapor Pressure:</b>	Not determined	<b>Solubility in Water:</b>	Soluble
<b>Vapor Density:</b>	Not determined		

### 10. STABILITY AND REACTIVITY

<b>General:</b>	Stable.
<b>Conditions to Avoid:</b>	Direct heat, open flames.
<b>Incompatible Materials:</b>	Strong alkali
<b>Hazardous Decomposition / Combustion:</b>	Carbon dioxide/carbon monoxide.
<b>Hazardous Polymerization:</b>	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.			

### 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 international 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: None

All ingredients are listed on the EPA TSCA Inventory.

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:** 23 JULY 2019

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

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

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