



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

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** WAVE SOLDER FLUX #1075-EXR-40

**SDS Number:** SDS-HG018

**Revised Date:** 10 JANUARY 2015

**Product 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

Pictogram: None

Signal Word: None

### 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
- 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 +P341    IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
- P305 + P351    IF IN EYES: Rinse continuously with water for several minutes (15 mins)

### POTENTIAL HEALTH EFFECTS:

**Eye Contact:**    Vapors may be irritating.

**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 it's products for human consumption.**

**WARNING:**        **This product contains chemicals known to the State of California to cause cancer and/or birth defects (or other reproductive harm).**

**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	85-95	7732-18-5	N.E.	N.E.	N.E.
PROPRIETARY (NON-HAZ)	1-11		N.E.	N.E.	N.E.
CARBOXYLIX ACID	4	68603-87-2	N.E.	N.E.	N.E.

N.E. = Not established

**PRODUCT DOES NOT CONTAIN ANY EU REACH SUBSTANCES OF VERY HIGH CONCERN (SVHC)****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:** Not established.      **Method:** Not established.
- Auto-ignition Temperature:** None
- Flammable Limits:** Not applicable
- Extinguishing Media:** Use extinguishers appropriate for the surrounding fire conditions.
- Special Fire Fighting**      None
- Procedures:**

**6. ACCIDENTAL RELEASE MEASURES**

- Spill or Leak Procedures:** DO NOT allow material to enter sewer system or waterway. Dispose of following all Federal, State and Local regulations.

**7. HANDLING AND STORAGE**

- Handling**      Keep containers tightly closed when not in use. Use care to avoid spills. Wear personal
- Precautions:**      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. Recommend personal protective equipment.

### Personal protection:

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

**Respirator:** A NIOSH approved or EU compliant CE marked air-purifying respirator with a fume/organic chemical cartridge is recommended where airborne concentrations are expected to be elevated.

**Skin:** Compatible chemical resistant gloves. Nitrile gloves 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>	Liquid, clear	<b>Boiling Point:</b>	100°C (212°F)
<b>Odor:</b>	Mild characteristic odor.	<b>Melting Point:</b>	0°C (32°F)
<b>Specific Gravity:</b>	1.021 @ 60° F	<b>pH:</b>	2.8 (as is) 3.5 (1% solution)
<b>Vapor Pressure:</b>	23.7 mm HG @25°C	<b>Solubility in Water:</b>	Soluble
<b>Vapor Density:</b>	(air=1) Not determined		

## 10. STABILITY AND REACTIVITY

**General:** Stable.

**Conditions to Avoid:** Not established.

**Incompatible Materials:** Strong alkali.

**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 mixture 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.

## 14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements. Not regulated under US DOT (United States Department of Transportation).

UN: NONE

MARINE POLLTANT: NO

North American Emergency Guide Book – Not applicable

## 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 Mexican Standards: NOM-010-STPS-1999 and NOM-018-STPS-2000.

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

WHMIS: May not be 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 chemicals known to the State of California to cause cancer and/or birth defects (or other reproductive harm). (Trace amounts 1,4 dioxane 0.05%)

SARA 313 Listing - 40 CFR 372.65: 1,4 dioxane 0.05%

All ingredients are listed on the EPA TSCA Inventory.

Ingredients are listed on the Canadian Domestic Substance List.

EC Classification, Packaging and Labeling Requirements:

Symbol and Hazard Classification of Product

### Safety Phrases:

S20/21 When using do not eat, drink or smoke

S23 Do not breathe fumes

S24/25 Avoid contact with skin and eyes

S28	After contact with skin wash immediately with plenty of soap and water
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection
S62	If swallowed, do not induce vomiting seek medical advice immediately and show container or label
S7	Keep container tightly closed

## 16. OTHER INFORMATION

**HMIS Hazard Rating:**

<b>Health:</b>	1
<b>Fire:</b>	0
<b>Reactivity:</b>	0

**Revised Date:** 10 JANUARY 2015

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

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

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