



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

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: INDIUM #1010 SOLDERING FLUX

SDS Number: SDS-4156

Revised Date: 13 JUNE 2014

Product Use: Industrial Use - Wave Solder Flux (mixture)

MANUFACTURER:

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2. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY:

Eye Inhalation Skin Ingestion

Carcinogen listed in

NTP IARC OSHA Not Listed

GHS:



Signal word: Danger

Hazard statement(s)

H314 Causes severe skin burns and eye damage
 H335 May cause respiratory 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
 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

Classification:

Skin corrosion – Category 1B
 Serious Eye Damage – Category 1

POTENTIAL HEALTH EFFECTS:

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

Ingestion: May cause irritation.

Inhalation: Vapors may cause irritation.

Skin Contact: May cause irritation. Prolonged contact may cause severe irritation and/or burns.

Chronic: Not established.

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

6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Do not allow material, as is, to enter sewer system or waterway. Product has a low pH, which may be prohibited for direct discharge. Wear personal protective equipment. Ventilate area in accordance with regulations. Dispose of following all Federal, State and Local regulations. In the EU refer to the Special Waste Regulations. Product contains a substance classified as a Marine Pollutant.

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. General exhaust ventilation recommended.

Personal protection:

Eyes: Chemical safety glasses/goggles and face shield for splash hazard operations.

Respirator: An approved or compliant marked air-purifying respirator with a fume/acid chemical cartridge is recommended where airborne concentrations are expected to be elevated.

Skin: Compatible chemical resistant gloves for exposure to hydrochloric acid solution. Product is corrosive.

Other: Lab coat, eye-wash fountain in work area, sleeve protection and apron in splash situations. 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

Appearance:	Clear to straw	Boiling Point:	212°F
Odor:	Mild odor.	Melting Point:	Not determined
Specific Gravity:	1.058 +/- 0.02 @60F	pH:	Below 2 (varies between 1- 2)
Vapor Pressure:	23.7 mm HG @ 25C	Solubility in Water:	Soluble
Vapor Density:	Not determined	Volatiles:	70%

10. STABILITY AND REACTIVITY

General: Stable.
Conditions to Avoid: Direct heat, open flames and storage in aluminum.
Incompatible Materials: Strong alkali
Hazardous Decomposition / Combustion: Carbon dioxide/carbon monoxide.
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity Listed: NTP: No
 OSHA: No
 IARC: No

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

Product not tested.

12. ECOLOGICAL INFORMATION

Product not tested. Product contain a substance that is harmful to the aquatic environment.

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. Generally classified as hazardous waste. Corrosive liquids are hazardous waste.

14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements. DOT shipping name:

UN 1789, HYDROCHLORIC ACID, 8, PG III SOLUTION

Emergency Guide Book: Guide # 157

Label: Corrosive



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).



WHMIS: Corrosive Class E

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 Chinese Occupational Exposure Limit for Hazardous Agents in the Workplace, GBZ2-2002.

This product has been classified in accordance with Mexican regulations NOM-018-STPS-2000 and NOM-010-STPS-1999.

SARA 313 Listing - 40 CFR 372.65: hydrochloric acid (aerosol form only)

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

X_n C

Risk Phrases:

- R21 Harmful in contact
R36/37/38 Irritating to eyes, respiratory system and skin

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
S7 Keep container tightly closed

16. OTHER INFORMATION

HMIS Hazard Rating: **Health:** 2
 Fire: 0
 Reactivity: 0

Revised Date: 13 JUNE 2014

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