



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

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: OnSpec® Tabbing Flux GS-1414

SDS Number: SDS-4682

Revised Date: 24 APRIL 2015

Product Use: Industrial Use - 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:

No GHS hazard statements

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 (15 mins)

POTENTIAL HEALTH EFFECTS:

- Eye Contact:** Vapors may be irritating and liquid may damage eye tissue.
- Ingestion:** May cause gastric disturbance.
- Inhalation:** May cause mild throat irritation
- Skin Contact:** May cause mild 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. This product contains chemicals known to the State of California to cause cancer and/or birth defects (or other reproductive harm).
1,4 dioxane <0.05%

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	% wt	CAS Registry #	PEL mg/m ³	TLV-TWA mg/m ³	TLV-STEL mg/m ³
WATER	85-95	7732-18-5	N.E.	N.E.	N.E.
CARBOXYLIC ACID	4.0	68603-87-2	N.E.	N.E.	N.E.

POLYGYCOL ETHER	1.0-11.0	9038-95-3	N.E.	N.E.	N.E.
Risk Phrases: R36/37/38					
N.E. = Not established		EU = European Exposure Limits			

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:** >140F **Method:** Not applicable
- Auto-ignition Temperature:** Not applicable
- Flammable Limits:** Not applicable
- Extinguishing Media:** Dry chemical, Water or CO₂. 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.
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. Avoid inhalation of product.
Skin:	Compatible chemical resistant gloves for lower pH chemicals. Use gloves such as nitrile.
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			
Appearance:	Clear	Boiling Point:	212 F
Odor:	Mild	Evaporation Rate:	Not determined
Specific Gravity:	1.014 @60F	pH:	3.15
Vapor Pressure:	23.7 mm HG @ 25 C	Solubility in Water:	Soluble
Vapor Density:	Not determined	% Volatiles by volume:	100

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:	National Toxicity Program NTP:		No
	Occupational Safety & Health Administration OSHA:		No
	International Agency for Research on Cancer IARC:		No
LD50:	Not established.	LC50:	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 regulations and requirements. Non - hazardous for shipping.
 North America Emergency Guide Book – Not applicable
 Not regulated: ground/IATA/Ocean.

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: Not 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).
 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.

This product has been classified under the Mexican regulations NOM-018-STPS-2000 and NOM-010-STPS-1999.

This product has been classified using the Chinese Occupational Exposure Limit for Hazardous Agents in the Workplace, GBZ2-2002.

EC Classification, Packaging and Labeling Requirements:

Symbol and Hazard Classification of Product

Risk Phrases:

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

S62 If swallowed, do not induce vomiting seek medical advice immediately and show container or label
S7 Keep container tightly closed

RoHS (Restriction of Hazardous Substances): This product complies with the requirements set under the EU Directive 2002/95/EC. This product does not contain any metals or flame - retardants.

16. OTHER INFORMATION

HMIS Hazard Rating:

Health:	1
Fire:	0
Reactivity:	0

Revised Date: 24 APRIL 2015

Prepared by: Nancy Swarts, Indium Corporation of America

Approved by: Nancy Swarts, Indium Corporation of America

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