



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

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier: WF-7742 VOC FREE FLUX

MSDS Number: MSDS-E-4158

Revised Date: 12 FEBRUARY 2008

Product Use: FLUX USED FOR SOLDERING APPLICATIONS

MANUFACTURER:

In Europe:

Indium Corporation of Europe
7 Newmarket Ct.
Kingston, Milton Keynes, UK, MK 10 OAG
Information: +44 [0] 1908 580400 (office hours)

In America:

The Indium Corporation of America
1676 Lincoln Ave., Utica NY 13502
Information: (315) 853-4900

EMERGENCY PHONE:

CHEMTREC 24 hrs.
USA: 1 (800) 424-9300
Outside USA: 1 (703) 527-3887

In China:

Indium Corporation (Suzhou) Co., Ltd.
No. 428 Xinglong Street
Suzhou Industrial Park
Suchun Industrial Square
Unit No. 14C
Jiangsu Province, China 215126
Information: 86-512-6283-4900

In Asia:

Asia-Pacific Operations-Singapore
29 Kian Teck Avenue
Singapore 628908
Information: +65 6268-8678

2. COMPOSITION / INFORMATION ON INGREDIENTS

Components	% wt	CAS Registry #/EINECS#	MEL	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	68603-87-2	N.E.	N.E.	N.E.
POLYGLYCOL ETHER	1-11	9038-95-3	N.E.	N.E.	N.E.

Risk Phrases: R36/37/38

N.E. = Not established

3. HAZARDS IDENTIFICATION**PRIMARY ROUTES OF ENTRY:** Eye Inhalation Skin Ingestion**CARCINOGEN LISTED IN:** NTP IARC OSHA Not Listed**POTENTIAL HEALTH EFFECTS:****Eye Contact:** Vapors may be irritating and liquid may damage eye tissue.**Ingestion:** May cause throat irritation.**Inhalation:** May cause irritation.**Skin Contact:** May cause skin irritation.**4. FIRST AID MEASURES****Eye Contact:** Hold eyelids apart and flush eyes with plenty of 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(60C)	Method:	Not established.
Auto-ignition Temperature:	Not established.		
Flammable Limits:	Limits not established.		
Extinguishing Media:	Use extinguishers appropriate for the surrounding fire conditions. Dry chemical, CO ₂		
Special Fire Fighting Procedures:	Firefighters must wear approved self-contained breathing apparatus and full protective fire fighting clothing.		

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 appropriate personal protective equipment to reduce exposure to skin. Do not touch eyes. Wash hands and face. Eliminate sources of ignition. Ventilate area in accordance with regulations.

7. HANDLING AND STORAGE

Handling

Precautions: Keep containers tightly closed when not in use. Use only with production equipment specifically designed for use with solder paste. Wear appropriate personal protective equipment. Wash hands and face before eating.

Storage Precautions: Store product in a cool, dry area away from incompatible materials. Refer to product storage temperature requirements on package or product data sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation is recommended to control any air contaminants. Use exhaust ventilation during heating of product.

Personal protection:

Eyes: Chemical safety glasses/goggles.

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

Skin: Compatible chemical resistant gloves.

Other: Lab coat, safety shower and 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. If applicable follow standard lead worker requirements and regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear	Boiling Point:	212F (100C)
Odor:	Mild	Vapor Density:	Not determined
Melting Point:	Not applicable		
Specific Gravity:	1.014@60F(16C)		
ph:	3.15		

Vapor Pressure: Not determined**Solubility in Water:** Soluble

10. STABILITY AND REACTIVITY

General: Stable.

Conditions to Avoid: Direct heat, open flames and storage in aluminum

Incompatible Materials: Strong alkali

Hazardous Decomposition / Combustion: Harmful organic fumes and toxic oxide fumes may form at elevated temperatures.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity Listed:

National Toxicity Program (NTP): No

Occupational Safety & Health Administration (OSHA): No

U.N. International Agency for Research on Cancer (IARC): No

LD50: Not established for mixture **LC50:** Not established for mixture

12. ECOLOGICAL INFORMATION

This section is subject to future development. Products not tested.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in accordance with environmental regulations.

14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements.
Not classified for transport.

15. REGULATORY INFORMATION

The information in this Material 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.).

The information in this Material Safety Data Sheet meets the requirements of the EU under Chemicals (Hazard Information and Packaging for Supply) Regulations (CHIP 3) (2002). The product is not classified.

This product has been classified in accordance with the hazard criteria of the Commission Directive 91/155/EEC and EH40.

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

S7 Keep container tightly closed

16. OTHER INFORMATION

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

Revised Date: 12 FEBRUARY 2008

Prepared by: Nancy Swarts, Indium Corporation of America

Approved by: Nancy Swarts, Indium Corporation of America

The information and recommendations contained herein are, to the best of The Indium Corporation of America's knowledge and belief, accurate and reliable as of the date issued. The Indium Corporation of America does not warrant or guarantee their accuracy or reliability, and The Indium Corporation of America shall not be liable for any loss or damage arising out of the user thereof. The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer repackages this product, legal counsel should be consulted to insure proper health, safety and other necessary information is included on the container. The Indium Corporation does not recommend, manufacturer, market or endorse any of its products for human consumption.