

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

# **SAFETY DATA SHEET**

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: TACFLUX 020B

**MSDS Number:** MSDS-IN TF038 **Revised Date:** 10 FEBRUARY 2012

**Product Use:** Industrial Use -Tacflux

# **MANUFACTURER:**

In America:

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

In Europe:

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

In Asia:

Asia-Pacific Operations-Singapore 29 Kian Teck Avenue Singapore 628908

Information: +65 6268-8678

**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

No. 14-C

Jiangsu Province, China 215126 Information: (86) 512-6283-4900

# 2. HAZARDS IDENTIFICATION

GHS:







PRIMARY ROUTES OF ENTRY: Carcinogen listed in

⊗Eye ⊗Inhalation ⊗Skin ⊗Ingestion NTP IARC OSHA ⊗Not Listed

Signal Word: Danger Hazard Statements:

H317 May cause an allergic skin reaction

H226 Flammable liquid and vapor

H302 Harmful if swallowed H332 Harmful if inhaled

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H360FD May damage fertility. May damage the unborn child EUH208 Contains rosin. May produce an allergic reaction

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking

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

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#### **POTENTIAL HEALTH EFFECTS:**

Eye Contact: Irritating to the eyes and if not removed promptly, may result in serious eye injury. Do

not allow material to come in contact with the eyes.

Ingestion: Harmful if swallowed. May cause irritation and damage to the mouth, esophagus and gastrointestinal

tract.

Inhalation: Heated vapor concentrations may be harmful if inhaled. May cause irritation or harm to

respiratory tract. Rosin may cause occupational asthma.

**Skin Contact:** May cause skin irritation. Allergic reactions or dermatitis are possible, especially with repeated

or prolonged exposure. May be harmful is absorbed through the skin

**Chronic:** Not established. Contains a chemical that may impair fertility or cause harm to the unborn child.

Target organs(2-methoxyethanol): CNS/liver/lungs/kidneys/immune system/bone marrow.

This product contains a chemical known to the State of California to cause cancer and/or birth Warning:

defects (or other reproductive harm). (2-methoxyethanol)

NOTE: The Indium Corporation does not recommend, manufacture, market or endorse any of its

product's for human consumption.

3. COMPOSITION / INFORMATION ON INGREDIENTS					
Components	% wt	CAS Registry #	<b>PEL</b> mg/m³	TLV-TWA mg/m³	TLV-STEL mg/m³
ROSIN	45-55	65997-05-9 (US)	N.E.	N.E.	N.E.
		(EU)	0.05	N.E.	0.15 (sensitiser)
2-METHOXYETHANOL	30-45	109-86-4	80 (skin)	16	N.E.
		(EU)	16 (MEL-skin)	N.E.	N.E.
		(Canada)	N.E.	16	32
PROPRIETARY ADDITIVES NON-HAZARDOUS N.F. = Not established	10-15		N.E.	N.E.	N.E.

N.E. = Not established

PRODUCT DOES CONTAIN A REPORTABLE EU SUBSTANCES OF VERY HIGH CONCERN (SVHC) (2-methoxyethanol)

#### 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: 46 C (115 F) Method: Not available

Auto-ignition Temperature: Not established.

Flammable Limits: Flammable - not established

**Extinguishing Media:** Use extinguishers appropriate for the surrounding fire conditions.

Special Fire Fighting Firefighters must wear NIOSH approved self-contained breathing apparatus and full

**Procedures:** protective clothing.

#### **6. ACCIDENTAL RELEASE MEASURES**

Spill or Leak Procedures: Wear a respirator and appropriate personal protection (See Exposure

Controls/Personal Protective Section). Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Dispose of following all Federal, State

and Local regulations. Keep sources of ignition away.

#### 7. HANDLING AND STORAGE

**Handling**Keep containers tightly closed when not in use. Use care to avoid spills. Avoid breathing **Precautions:**vapors from heated material. Avoid contact with eyes, skin and clothing. Use with adequate

ventilation. Keep sources of ignition away. Ground containers.

Storage Precautions: Store product in tightly capped original containers in a cool, dry area. Keep away from heat

and flame. Store away from incompatible materials. Empty containers may be hazardous as

they contain product residue.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Exhaust ventilation is recommended to control airborne levels and keep exposures as

low as possible. Recommend material not be used without proper ventilation.

Personal protection:

**Eyes:** Chemical safety glasses with side shields or goggles. Face shield for splash hazards.

**Respirator:** An authority approved or compliant marked air-purifying respirator with a fume/organic chemical

cartridge is recommended under certain circumstances where airborne concentrations are expected

to be elevate or when proper ventilation is not available.

**Skin:** Compatible chemical resistant gloves. Protective outer garment, apron and sleeves as appropriate.

Latex gloves not recommended. Use rubber gloves or nitrile.

**Other:** Eyewash fountain in work area. Avoid the use of contact lenses.

Work/Hygienic Maintain good housekeeping. Clean up spills immediately.

**Practices:** Avoid eating, smoking or drinking in the work area. Wash hands thoroughly with soap and water

after handling.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Flux **Boiling Point:** Appearance: Not applicable. Odor: Mild characteristic odor. **Melting Point:** Not applicable **Specific Gravity:** Not applicable. Not applicable pH: **Vapor Pressure:** Not applicable. Solubility in Water: Insoluble

Vapor Density: (air=1) Not applicable.

#### 10. STABILITY AND REACTIVITY

General: Stable.

**Conditions to Avoid:** Freezing temperatures. High temperatures.

Incompatible Materials: Ignition sources

Hazardous Decomposition / Harmful organic fumes and toxic oxide fumes may form at elevated

**Combustion:** temperatures.

Hazardous Polymerization: Will not occur.

# 11. TOXICOLOGICAL INFORMATION

Carcinogenicity: NTP: No

OSHA: No IARC: No

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

Other: 2-methoxyethanol LD50 oral- 2370 mg/kg (rat)

LD50 Dermal - 1280 mg/kg (rabbit) & 2000 mg/kg (rat)

## 12. ECOLOGICAL INFORMATION

Product not tested.

2-methoxyethanol

500 mg/l LC50 96h (freshwater fish)

10000 mg/l LC50 96h (freshwater fish)

#### 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.

Shipping name: UN 1188, Ethylene Glycol Monomethyl Ether, 3, PG III



North American Emergency Guide Book – Guide #127

UN - UN 1188

#### 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.).

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

Canadian WHMIS: Class B Division 2 Flammable, D2B Toxic Material Causing Other Toxic Effects (eye irritation in animals) (skin irritant/skin sensitizer).

This product has been classified in accordance with the guidelines set by the Dept. of Industrial Health of the Republic of Singapore.

California Prop 65: Warning: This product contains a chemical known to the State of California to cause cancer and/or birth defects (or other reproductive harm). (2-methoxyethanoll)

SARA 313 Listing - 40 CFR 372.65 : 2-methoxyethanol

All ingredients are listed on the EPA TSCA Inventory.

EC Classification, Packaging and Labeling Requirements:

Symbol and Hazard Classification of Product



 $X_n$  F, T (2-methoxyethanol)

#### **Risk Phrases:**

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed

R36/37/38 Irritating to eyes, respiratory system and skin

R42/43 May cause sensitization by inhalation and by skin contact

R10 Flammable

R60 May impair fertility (contains a chemical). Note: This does not reflect the entire product.

R61 May cause harm to the unborn child (contains a chemical). Note: This does not reflect the entire product.

#### **Safety Phrases:**

S20/21 When using do not eat, drink or smokeS23 Do not breathe fumes/gas/vapor/spray

S24/25 Avoid contact with skin and eyes

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

S28 After contact with skin wash immediately with plenty of soap and water

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: Health: 2

Fire: 2 Physical Hazards: 0

Revised Date: 10 FEBRUARY 2012

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

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