

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

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: 25 BIO-CLEANER

SDS Number: SDS-4425 Revised Date: 8 FEBRUARY 2015

Product Use: Industrial Use -Flux Cleaner

#### **MANUFACTURER:**

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### 2. HAZARDS IDENTIFICATION

## **PRIMARY ROUTES OF ENTRY:**

Carcinogen listed in

\*Eye \*Inhalation \*Skin \*Ingestion NTP IARC OSHA \*Not Listed

**GHS** 



Signal word: Danger Hazard statement(s)

H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled

H314 Causes severe skin burns and eye damage H412 Harmful to aquatic life with long lasting effects

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)

Classification:

Acute toxicity, oral- Category 4
Acute toxicity, dermal- Category 4
Acute toxicity, inhalation – Category 4
Chronic aquatic toxicity- Category 3

#### POTENTIAL HEALTH EFFECTS:

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

**Ingestion:** May result in gastric disturbances. Harmful if swallowed.

**Inhalation:** May cause throat irritation or burns. Harmful if inhaled.

**Skin Contact:** May cause irritation or skin burns. May be harmful if absorbed through the skin.

NOTE: The Indium Corporation does not recommend, manufacture, market or endorse any of it's

products for human consumption.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Components % wt CAS Registry # PEL TLV-TWA TLV-STEL

SDS = 4425 25 BIO-CI FANER

S – 4425		25 BIO-CLEANER			
			mg/m³	mg/m³	mg/m³
ETHANOLAMINE	30-45	141-43-5(US)	6	7.5	15
		(EU)	-	7.6	15
		(Canada)	-	7.5	15
		(Singapore)	7.5	-	15
		(Mexico)	-	8	-
		(China)	-	8	15
PROPRIETARY	20-40	-	N.E.	N.E.	N.E.
ETHYLENE GLYCOL BUTYL ETHER (2-BUTOXYETHANOL)	30-35	111-76-2(US)	240	97 5ppm (skin)	-
		(EU)	-	25ppm	50ppm
		(Canada)	-	120	360
		(Singapore)	121	-	-
		(Mexico)	-	120(skin)	360(skin)

Symbol: X<sub>n</sub>C Risk Phrases: R20/21/22, R36/37/38

N.E. = Not established

#### PRODUCT DOES NOT CONTAIN ANY EU REACH SUBSTANCES OF VERY HIGH CONCERN

### 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: 220F Method: TCC

Auto-ignition Temperature: Not available

Flammable Limits: NA

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

Special Fire Fighting Standard fire fighting equipment

**Procedures:** 

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

**Spill or Leak Procedures:** Do not allow material to enter sewer system or waterway. Wear personal protective equipment, such as gloves and depending on the quantity a respirator with organic cartridges may be required. Clean up by absorption. Eliminate sources of ignition. Keep unnecessary personnel away. Put clean-up materials in a properly labeled compatible drum. Dispose of following all Federal, State and Local regulations. In the EU refer to the Special Waste Regulations.

## 7. HANDLING AND STORAGE

**Handling** Keep containers tightly closed when not in use. Use care to avoid spills. Wear personal

**Precautions:** protective equipment. Do not breathe vapors.

**Storage Precautions:** Store product in tightly capped original containers in a cool, dry area away from sources of

ignition. 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 is recommended

to keep exposure limits as low as possible. Use engineering controls.

Personal protection:

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

Respirator: An authority approved or compliant 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 for corrosive chemicals.

Other: Lab coat, eyewash fountain in work area. Avoid the use of contact lenses in high fume/splash areas.

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

**Practices:** 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: Light straw Boiling Point: 329F

Odor:AmmonicalMelting Point:Not applicableSpecific Gravity:0.972pH:13 Corrosive

Vapor Pressure:NASolubility in Water:SolubleVapor Density:NAEvaporation Rate:ND

Volatile by Volume: 90%

## 10. STABILITY AND REACTIVITY

General: Stable.

**Conditions to Avoid:** Direct heat, open flames.

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition /

Combustion:

Hydrogen bromide/Carbon dioxide

**Hazardous Polymerization:** Will not occur.

### 11.TOXICOLOGICAL INFORMATION

Carcinogenicity: NTP: No

OSHA: No IARC: No

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

Glycol ether: LD50 oral rat - 470 mg/kg

LD50 oral rat >5,000 mg/kg

### 12. ECOLOGICAL INFORMATION

Product not tested.

Glycol ether: Toxicity to fish: LC50 –other fish- 220 mg/l – 96h

Contains a substances that is harmful to the aquatic life.

## 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.

### 14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements.

UN2491, Ethanolamine Solution, 8, PG III



North American Emergency Guide Book – Guide 153

# 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





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 in accordance with Mexican regulations NOM-0180STPS-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.

SARA 313 Listing - 40 CFR 372.65: glycol ether

All ingredients are listed on the EPA TSCA Inventory.

EC Classification, Packaging and Labeling Requirements:

Symbol and Hazard Classification of Product

 $X_n C$ 

#### **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

## **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

S27 Take off immediately all contaminated clothing

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: Health: 2

Fire: 1
Reactivity: 0

**Revised Date:** 8 FEBRUARY 2015

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

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