

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

## **MATERIAL SAFETY DATA SHEET**

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: INDIUM #7 BIO-CLEANER

MSDS Number: MSDS-4425 Revised Date: 14 SEPTEMBER 2007

**Product Use:** Aqueous alkaline flux residue remover

#### **MANUFACTURER:**

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Suchun Industrial Square

7.5

Unit No. 14-C

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

2. COMPOSITION / INFORMATION ON INGREDIENTS					
Components	% wt	CAS Registry #	<b>PEL</b> mg/m³	TLV-TWA mg/m³	TLV-STEL mg/m³
GLYCOL ETHER	35-40	112-34-5	240 skin	20ppm	N.E.
		(EU)	-	20ppm	50ppm
ALKANOLAMINE	40-55	141-43-5(US)	6	7.5	15
		(Canada)	-	7.5	15
		(EU)	-	7.6	15

(Singapore)

**NON-IONIC** 10-20 - N.E. N.E. N.E.

SURFACTANT

XI Risk Phrases: R36/37/38, R41

N.E. = Not established EU = European Exposure Limits

#### 3. HAZARDS IDENTIFICATION

## PRIMARY ROUTES OF ENTRY: Carcinogen listed in

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

**POTENTIAL HEALTH EFFECTS:** 

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

**Ingestion:** May result in gastric disturbance. Contains an ingredient that my be toxic by ingestion.

**Inhalation:** May cause throat irritation

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

Chronic: Not established.

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

products for human consumption.

#### 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: 145°F Method: Closed Cup

**Auto-ignition Temperature:** N/A

Flammable Limits: NA Combustible

**Extinguishing Media:** Dry chemical, Water or CO<sub>2</sub>. 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. Flammable vapors may travel great distances to ignition source and flash back.

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

**Spill or Leak Procedures:** Do not allow material to enter sewer system or waterway. Check with local authority. Material has a high pH that may not be allowed for direct discharge. Wear personal protective equipment. Eliminate sources of ignition. Ventilate area in accordance with regulations. Dispose of following all Federal, State and Local regulations.

#### 7. HANDLING AND STORAGE

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

**Precautions:** 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. Ventilation recommended.

Recommend personal protective equipment, if ventilation equipment is not available or is not

adequate.

Personal protection:

Vapor Density:

**Eyes:** Chemical safety glasses/goggles.

Respirator: A NIOSH approved or EU compliant CE marked air-purifying respirator with a fume/organic chemical

cartridge is recommended where airborne concentrations are expected to be elevated or if working in

% Volatiles by volume: 90-92%

confined spaces.

**Skin:** Compatible chemical resistant gloves. Use gloves, which are compatible with alkaline products.

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

NA

Light straw **Boiling Point:** 329°F Appearance: Odor: Ammonia like **Evaporation Rate:** ND 0. 965 @ 60° F **Specific Gravity:** pH: 11 Vapor Pressure: NA Solubility in Water: Soluble

## 10. STABILITY AND REACTIVITY

General: Stable.

Conditions to Avoid: Direct heat, open flames Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition / Carbon dioxide/carbon monoxide/ hydrogen bromide.

Combustion:

Hazardous Polymerization: Will not occur.

## 11.TOXICOLOGICAL INFORMATION

Carcinogenicity: 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.

## 12. ECOLOGICAL INFORMATION

This section is subject to future development.

Biodegradability: Product is biodegradable flux remover. Alkaline in character.

Aquatic Toxicity: Contains an ingredient that is toxic to fish.

Product not tested.

WGK Germany (water hazard class) Class 1

## 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.

UN2491, Ethanolamine, 8, PG III (mixture)



North America Emergency Guide: Guide 153

## 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 1994 (CHIP 2) Regulation 6.

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

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

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-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.

SARA 313 Listing - 40 CFR 372.65: glycol ether listed

All ingredients are listed on the EPA TSCA Inventory.

EC Classification, Packaging and Labeling Requirements:

Symbol and Hazard Classification of Product

#### **Risk Phrases:**

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

R41 Risk of serious damage to eyes

#### **Safety Phrases:**

S20/21 When using do not eat, drink or smoke

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

## **16. OTHER INFORMATION**

HMIS Hazard Rating: Health: 2

Fire: 1 Reactivity: 0

Revised Date: 14 SEPTEMBER 2007

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