

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

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: WS 446

SDS Number: SDS-4142 Revised Date: 22 JUNE 2016

Product Use: Industrial Use (mixture) - Water wash flux

MANUFACTURER:

In America:

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

2. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY:

Carcinogen listed in

XEye XInhalation XSkin XIngestion NTP IARC OSHA XNot Listed



Signal Word: Warning Hazard statement(s)

H315 Causes skin irritation

H319 Causes serious eye irritation H335 May cause respiratory irritation

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: Irritating to the eyes and if not removed promptly, may result in serious eye

irritation. Do not allow material to come in contact with the eyes.

Ingestion: May cause irritation.

Inhalation: Heated vapor concentrations may be harmful if inhaled. May be irritating to respiratory tract.

Skin Contact: Causes skin irritation. .

Chronic: Not established.

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

products for human consumption.

3. COMPOSITION / INFORMATION ON INGREDIENTS						
Components	% wt	CAS Registry #	PEL mg/m³	TLV-TWA mg/m³	TLV-STEL mg/m³	
POLYGLYCOL ETHER	40-45	9038-95-3	N.E.	N.E.	N.E.	
AMIDES	35-40	67700-97-4	N.E.	N.E.	N.E.	
PROPRIETARY ADDITIVES	15-25	trade secret	N.E.	N.E.	N.E.	
N.E. = Not established EU = European Union Occupational 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: >100C (212F) Method: Not available

Auto-ignition Temperature: Not established.

Flammable Limits: Limits not established

Extinguishing Media: Use extinguishers appropriate for the surrounding fire conditions. Foam, dry

chemical, water spray.

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 Protective (See Exposure

Controls/Personal Protective Section). Turn off all sources of ignition. 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. 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. Avoid breathing

Precautions: vapors from heated material. Avoid contact with eyes, skin and clothing. Use with adequate

ventilation.

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 necessary to control airborne levels. Do not heat

material unless proper ventilation is available. Avoid exposure.

Personal protection:

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

Respirator: A NIOSH 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, such as nitrile should be worn. Protective outer garment,

apron and sleeves as appropriate.

Other: 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: 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: Flux -yellowish **Boiling Point:** Not established Odor: Slight characteristic odor. **Melting Point:** Not applicable **Specific Gravity:** Not established pH: Not applicable **Vapor Pressure:** Not applicable. Solubility in Water: Water Soluble

Vapor Density: (air=1) Not applicable.

10. STABILITY AND REACTIVITY

General: Stable.

Conditions to Avoid: High temperatures, open flame.

Incompatible Materials: Not established Hazardous Decomposition / Not established

Combustion:

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity: NTP: No

OSHA: No IARC: No

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

Other: None known

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.

14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements.

Non hazardous material. Non hazardous for shipping.

UN - none

Not regulated for 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.).

SARA 313 Listing - 40 CFR 372.65 - none

All ingredients are listed on the EPA TSCA Inventory.

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, as set, by the Dept. of Industrial Health of the Republic of Singapore.

This product has been classified in accordance with the Mexican regulations, NOM-018-STPS-2015 and NOM-010-STPS-2014.

This product has been classified in accordance with: Malaysian – OCCUPATIONAL SAFETY AND HEALTH (CLASSIFICATION, LABELING AND SAFETY DATA SHEET OF HAZARDOUS CHEMICALS) REGULATION OCTOBER 2013 – (CLASS).

Regulatory Information China:

GB/T 16483-2008, GB/T 17519-2013, Safety Data Sheets for Chemical Products

GB 30000.2-29-2013, Rules for classification and labeling of chemicals (GHS)

Decree No. 591: Regulations on the Control Over Safety of Hazardous Chemicals.

16. OTHER INFORMATION

HMIS Hazard Rating: Health: 1

Fire: 1 0

Reactivity:

Revised Date: 22 JUNE 2016

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

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