SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: WS365  
SDS Number: SDS-4200  
Revised Date: 3 AUGUST 2018

Product Use: Water Wash Tacflux

MANUFACTURER:

In America:
The Indium Corporation of America®.
34 Robinson Road, Clinton NY 13323
Information: (315) 853-4900
nswarts@indium.com

In Europe:
The Indium Corporation of America® (European Operations)
7 Newmarket Ct.
Kingston, Milton Keynes, UK, MK 10 OAG
Information: +44 [0] 1908 580400

In Asia:
The Indium Corporation of America
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
Unit No. 14-C
Jiangsu Province, China 215126
Information: (86) 512-6283-4900

http://www.indium.com
2. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY:  
- Eye  
- Inhalation  
- Skin  
- Ingestion

Carcinogen listed in  
- NTP  
- IARC  
- OSHA  
- Not Listed

GHS

Signal Word: Warning

Hazard Statements:

H225  Highly flammable liquid and vapor
H315  Causes skin irritation
H319  Causes serious eye irritation
H335  May cause respiratory irritation
H336  May cause drowsiness or dizziness

Precautionary statement(s)

P210  Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233  Keep container tightly closed
P240  Ground/Bond container and receiving equipment
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 +P364  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:
- Flammable liquid- Category 2
- Skin irritation- Category 2
- Serious eye irritation- Category 2A
- Respiratory irritation- Category 3

Specific target organ systemic toxicity (single exposure) – Category 3

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. Irritating to the respiratory tract and may cause headache or dizziness.

Skin Contact:  May cause mild skin irritation. Allergic reactions are possible, especially with repeated or prolonged exposure.

Chronic:  Not established. Methanol vapors has caused conjunctivitis, headache, GI disturbance, impaired vision and central nervous system damage. Methanol is slowly eliminated from the body and
exposure is considered cumulative over the short term. Inhalation over long periods may cause headache, nausea and alcoholic feeling.

**WARNING:** This product can expose you to chemicals including [trace amounts of 1,4 dioxane, propylene oxide, ethylene oxide] which are known to the State of California to cause cancer and [trace amounts of ethylene oxide] which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

NOTE: The Indium Corporation does not recommend, manufacture, market or endorse any of it's products for human consumption.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>% wt</th>
<th>CAS Registry #</th>
<th>PEL mg/m³</th>
<th>TLV-TWA mg/m³</th>
<th>TLV-STEL mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHANOL (Methyl Alcohol)</td>
<td>3.0 – 4.0</td>
<td>67-56-1 (US)</td>
<td>260</td>
<td>262</td>
<td>328</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(EU) -</td>
<td>-</td>
<td>266</td>
<td>333</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Canada) -</td>
<td>-</td>
<td>262</td>
<td>328</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Singapore) 262</td>
<td>-</td>
<td>262</td>
<td>328</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Mexico) -</td>
<td>-</td>
<td>260</td>
<td>310</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(China) -</td>
<td>25(skin)</td>
<td>-</td>
<td>50(skin)</td>
</tr>
</tbody>
</table>

**PROPRIETARY ALCOHOLS**

<table>
<thead>
<tr>
<th>% wt</th>
<th>CAS Registry #</th>
<th>PEL mg/m³</th>
<th>TLV-TWA mg/m³</th>
<th>TLV-STEL mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-64</td>
<td></td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
</tbody>
</table>

**PROPRIETARY ACTIVATORS**

<table>
<thead>
<tr>
<th>% wt</th>
<th>CAS Registry #</th>
<th>PEL mg/m³</th>
<th>TLV-TWA mg/m³</th>
<th>TLV-STEL mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>23-39</td>
<td></td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
</tbody>
</table>

**PROPRIETARY AMINE**

<table>
<thead>
<tr>
<th>% wt</th>
<th>CAS Registry #</th>
<th>PEL mg/m³</th>
<th>TLV-TWA mg/m³</th>
<th>TLV-STEL mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.0-9.0</td>
<td>(US)</td>
<td>N.E.</td>
<td>5</td>
<td>N.E.</td>
</tr>
<tr>
<td></td>
<td>(Singapore)</td>
<td>5</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value/Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>11C(52F)</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not established.</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>Limits not established, flammable.</td>
</tr>
<tr>
<td>Extinguishing Media</td>
<td>Use extinguishers appropriate for the surrounding fire conditions. CO₂, foam, water.</td>
</tr>
<tr>
<td>Special Fire Fighting</td>
<td>Firefighters must wear NIOSH approved self-contained breathing apparatus and full protective clothing.</td>
</tr>
</tbody>
</table>

### 6. ACCIDENTAL RELEASE MEASURES

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spill or Leak Procedures</td>
<td>Wear a respirator and appropriate personal protective equipment (See Exposure Controls/Personal Protective Section). Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Keep away from source of ignition. Do not allow to enter sewer. Dispose of following all Federal, State and Local regulations. Ensure area is ventilated. Keep unauthorized personnel away. In the EU refer to the Special Waste Regulations.</td>
</tr>
</tbody>
</table>

### 7. HANDLING AND STORAGE

| Handling Precautions     | Keep containers tightly closed when not in use. Use care to avoid spills. Avoid breathing 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     | Good general exhaust or point source ventilation should be sufficient to control airborne levels and keep exposure levels low. |
| Personal protection      |                                                                  |
| 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 under certain circumstances where airborne concentrations are expected to be elevated or when proper ventilation is not adequate to protect the worker. |
| Skin                     | Compatible chemical resistant gloves. Protective outer garment or apron and sleeves as appropriate. |
| Other                    | Eyewash fountain in work area. Avoid the use of contact lenses in high fume areas. |
| Work/Hygienic Practices  | Maintain good housekeeping. Clean up spills immediately. 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Flux</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild characteristic odor.</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

General: Stable.

Conditions to Avoid: Freezing temperatures. High temperatures.

Incompatible Materials: Not established

Hazardous Decomposition / Hazardous Polymerization: Harmful organic fumes and carbon monoxide and carbon dioxide fumes may form at elevated temperatures. Will not occur.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity: NTP: No
OSHA: No
IARC: No

LD50: Not established. LC50: Not established.

Other: Product contains trace levels of ingredients listed as potential carcinogens: ethylene oxide, 1.4 dioxane and acetaldehyde.

12. ECOLOGICAL INFORMATION

This section is subject to future development.

Biodegradability: Data not established.

Aquatic Toxicity: Data not established.

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 international regulations and requirements.

Shipping: Flammable Liquid, N.O.S., (methanol) 3, UN1993, PG II

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.).

The information in this 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 Mexican guidelines, NOM-018-STPS-2015 and NOM-010-STPS-2014.

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

WHMIS: Flammable Class 2B

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

In China:
This product has been classified using the Chinese Occupational Limit for Hazardous Agents in the Workplace, GBZ2-2007. Decree No. 591: Regulations on the Control over Safety of Hazardous Chemicals GB 30000.2-29-2013, Rules for classification and labeling of chemicals. (GHS) GB/T 16483-2008, GB/T 17517-2013

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).

WARNING: This product can expose you to chemicals including [trace amounts of 1,4 dioxane, propylene oxide, ethylene oxide] which are known to the State of California to cause cancer and [trace amounts of ethylene oxide] which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

SARA 313 Listing (TRI Reporting) - 40 CFR 372.65 - Methanol CAS 67-56-1, (trace levels of ethylene oxide CAS 75-21-8, acetaldehyde CAS 75-07-0 and 1, 4 dioxane CAS 123-91-1)

All ingredients are listed on the EPA TSCA Inventory.
### 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS Hazard Rating</th>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

Revised Date: 3 AUGUST 2018  
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.