# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Identifier:</th>
<th>DIME SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDS Number:</td>
<td>SDS-4206</td>
</tr>
<tr>
<td>Revised Date:</td>
<td>13 SEPTEMBER 2018</td>
</tr>
<tr>
<td>Product Use:</td>
<td>LIQUID FLUX (MIXTURE)</td>
</tr>
</tbody>
</table>

### MANUFACTURER:

**In America:**
The Indium Corporation of America®.
34 Robinson Rd., 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:**
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
2. HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY:  
× Eye  × Inhalation  × Skin  × Ingestion  NTP  Carcinogen listed in  
NTP  IARC  OSHA  × Not Listed

GHS

Signal Word: Danger

Hazard Statement(s):
H301  Toxic if swallowed
H312  Harmful in contact with skin
H319  Causes serious eye irritation
H331  Toxic if inhaled
H370  Causes damage to organs
H225  Highly flammable liquid and vapor

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
P241  Use explosion-proof electrical/ventilating/lightening equipment
P242  Use only non-sparking tools
P243  Take precautionary measures against static discharge
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
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water
P304 + P340 IF INHALED: 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
Acute toxicity- oral- Category 3
Acute toxicity- inhalation- Category 3
Acute toxicity-dermal-Category 3
Specific target organ toxicity- single exposure- Category 1

POTENTIAL HEALTH EFFECTS:

Eye Contact:  Vapors may be irritating, liquid may damage eye tissue.
Ingestion: May cause persistent nausea, vomiting and abdominal pain. Harmful if swallowed.
Inhalation: Vapor may cause headaches, drowsiness, vertigo and or dizziness. Harmful if inhaled.
Skin Contact: Prolonged contact may cause irritation. Harmful by skin absorption.
Chronic: Methanol target organ CNS, respiratory system. Methanol is slowly eliminated from the body.
WARNING: This product can expose you to chemicals including [methanol] 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

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>% wt</th>
<th>CAS Registry #:EINECS#</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>50</td>
<td>67-56-1/200-659-6</td>
<td>260</td>
<td>262</td>
<td>328</td>
</tr>
<tr>
<td>(US)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(EU)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Canada)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Singapore)</td>
<td>262</td>
<td></td>
<td></td>
<td></td>
<td>328</td>
</tr>
<tr>
<td>(Mexico)</td>
<td></td>
<td></td>
<td></td>
<td>260</td>
<td>310</td>
</tr>
<tr>
<td>(China)</td>
<td></td>
<td></td>
<td></td>
<td>25(skin)</td>
<td>50(skin)</td>
</tr>
<tr>
<td>PROPRIETARY</td>
<td>50</td>
<td>-</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
</tbody>
</table>

N.E. = Not established  EU = European 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.

Call POISON CENTER

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: 52 F  Method: Closed Cup
Auto-ignition Temperature: 850 F
**Flammable Limits:**
Upper: 36 ; Lower 7

**Extinguishing Media:**
Dry chemical, CO₂, sand, alcohol-resistant foam. 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. Wear personal protective equipment. Eliminate sources of ignition. Ventilate area in accordance with regulations. Keep unauthorized personnel away. Dispose of following all Federal, State and Local regulations. In the EU refer to the Special Waste Regulations.

### 7. HANDLING AND STORAGE

**Handling Precautions:**
Keep containers tightly closed when not in use. Use care to avoid spills. Wear personal protective equipment. Ground containers. Keep away from sources of ignition/heat/flame.

**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. Ground containers, especially during pouring.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:**
Face velocity >2.1 cubic feet/minute in confined areas. Exhaust ventilation is required. Avoid exposure to fumes and vapors. Work in chemical hood if possible.

**Personal protection:**

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

**Respirator:** An 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. Use gloves such as nitrile, which are compatible with alcohol's.

**Other:** Lab coat, eye-wash fountain in work area. Avoid the use of contact lenses in high fume areas.

**Work/Hygienic Practices:** Maintain good housekeeping. Clean up spills immediately. 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:** Clear liquid

**Boiling Point:** 149 F
**Odor:** Alcohol odor.  
**Evaporation Rate:** 3.5  
**Specific Gravity:** 0.878  
**pH:** Neutral  
**Vapor Pressure:** 4.3lbs/sq.in. 100F  
**Solubility in Water:** Soluble  
**Vapor Density:** ND  
**% Volatiles by volume:** ND

### 10. STABILITY AND REACTIVITY

**General:** Stable.

**Conditions to Avoid:** Direct heat, open flames and storage in aluminum.

**Incompatible Materials:** Anhydrides, halogens, phosphorus, trichlorides, monomers, aldehydes

**Hazardous Decomposition / Combustion:** Carbon dioxide/carbon monoxide and unidentified organics during 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.

**RTECS:** See NIOSH (PC 1400000)

Methanol: LD50 Oral 5628 mg/kg (rat), LD50 Dermal 15800 mg/kg (rabbit), LC50 Inhalation 64000 ppm (rat) 4h

Methanol: Target organs, gastrointestinal tract, CNS, eyes, respiratory system, skin nerves, liver, kidney, spleen, blood

### 12. ECOLOGICAL INFORMATION

Product not tested.

Methanol: Freshwater fish: LC50 >10000 mg/l 96h  
Water flea: EC50> 10000 mg/l 24h

### 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. Generally will be classified as hazardous waste. Empty containers should be taken for recycling, recovery or waste disposal.

### 14. TRANSPORT INFORMATION

Transport in accordance with applicable regulations and requirements.

**UN1230, METHANOL SOLUTION, 3, 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.).

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

Canadian WHMIS: Class B2 Flammable Liquid
D2B Toxic Material Causing Other Toxic Effects.

WARNING: This product can expose you to chemicals including [methanol] 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.

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

SARA 313 Listing - 40 CFR 372.65: Methanol

All ingredients are listed on the EPA TSCA Inventory.

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

Malaysia:

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). (GHS)

In China:

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 using the Chinese Occupational Limit for Hazardous Agents in the Workplace, GBZ2-2007.
### 16. OTHER INFORMATION

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

**Revised Date:** 13 SEPTEMBER 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.