# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Identifier</th>
<th>WS575-A</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDS Number</td>
<td>SDS-5692</td>
</tr>
<tr>
<td>Revised Date</td>
<td>18 SEPTEMBER 2014</td>
</tr>
</tbody>
</table>

**Product Use:** Industrial Use (mixture) - Flux mixture for solder related use.

### MANUFACTURER:

**In America:**
The Indium Corporation of America  
1676 Lincoln Ave., Utica NY 13502  
Information: (315) 853-4900  
nswarts@indium.com

**In Europe:**
Indium Corporation of Europe  
7 Newmarket Cl.  
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 (SPILL):**
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 statement(s)
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation

Precautionary statement(s)
- P233 Keep container tightly closed
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 Wash...thoroughly after handling
- 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: Cause irritation to the eyes. May cause serious irritation.
Ingestion: May cause irritation. May be harmful if swallowed.
Inhalation: May cause irritation.
Skin Contact: May cause skin irritation or sensitization upon contact.

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

WARNING: This product contains a chemical(s) known to the State of California to cause cancer and/or birth defects (or other reproductive harm). California Prop 65 – Safe Drinking Water Standard.
3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>% wt</th>
<th>CAS Registry #</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYGLYCOL ETHER</td>
<td>40 - 50</td>
<td>9038-95-3</td>
</tr>
<tr>
<td>ORGANIC ADDITIVES</td>
<td>44 - 54</td>
<td>68439-49-6</td>
</tr>
<tr>
<td>PROPRIETARY ACTIVATOR</td>
<td>1 - 6</td>
<td>-</td>
</tr>
</tbody>
</table>

PRODUCT DOES NOT CONTAIN ANY REPORTABLE EU SUBSTANCE OF VERY HIGH CONCERN (SVHC)

Symbol: XI  
Risk Phrases: R36/37/38, R43  
N.E. = Not established

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  
Method: Not available

Auto-ignition Temperature: Not established.

Flammable Limits: Limits not established. Not Flammable

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

Special Fire Fighting Procedures: Firefighters must wear approved self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Wear a respirator and appropriate Personal Protective (See Exposure Controls/Personal Protective Section). Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Ventilate area. Keep unnecessary personnel away from the area. 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. 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. Ambient temperatures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<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>POLYGLYCOL ETHER</td>
<td>40 - 50</td>
<td>9038-95-3</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
<tr>
<td>ORGANIC ADDITIVE</td>
<td>44-54</td>
<td>68439-49-6</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
<tr>
<td>PROPRIETARY ACTIVATORS</td>
<td>1 - 5</td>
<td>-</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
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</table>

Engineering Controls: Good exhaust ventilation or chemical hood should be sufficient to control any contaminate levels especially during heating applications.

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 under certain circumstances where airborne concentrations are expected to be elevated or if engineering controls are not available.

Skin: Compatible chemical resistant gloves. Protective outer garment, apron and sleeves as appropriate.

Other: Eyewash fountain in work area. Avoid the use of contact lenses in high fume/splash 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>RED liquid flux</td>
</tr>
<tr>
<td>Odor:</td>
<td>mild odor characteristic</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>1.1 g/cc</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>(air=1) Not applicable</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH:</td>
<td>4 -8</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

General: Stable

Conditions to Avoid: None known

Incompatible Materials: Oxidizing agents, acid chlorides, acid anhydrides
Hazardous Decomposition / Combustion: Harmful organic fumes and toxic oxide fumes may form at elevated temperatures.
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION
Carcinogenicity: NTP: No
OSHA: No
IARC: No
LD50: Not established. LC50: Not established.
Product mixture not tested.

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. Material is classified as none hazardous under US EPA guidelines.

14. TRANSPORT INFORMATION
Transport in accordance with applicable regulations and requirements. Not regulated as hazardous material. Non - hazardous under all shipping modes.
UN - none

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.).
Basic information follows the recommended changes under GHS Globally Harmonized System
This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation (CPR).
Canada WHMIS: not classified.
This product has been classified in accordance with the guidelines set by the Dept of Industrial Health of the Republic of Singapore.
WARNING: This product contains a chemical(s) known to the State of California to cause cancer
and/or birth defects (or other reproductive harm). California Prop 65 – Safe Drinking Water Standard.

USA SARA 313 Listing - 40 CFR 372.65 - none

All ingredients are listed on the US TSCA Inventory.

EC Classification, Packaging and Labeling Requirements:

Symbol and Hazard Classification of Product

XI

Risk Phrases:
R36/37/38 Irritating to eyes, respiratory system and skin
R43 May cause sensitization by skin contact

Safety Phrases:
S20/21 When using do not eat, drink or smoke
S23 Do not breathe fumes/gas/vapor/spray
S24/25 Avoid contact with skin and eyes
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

16. OTHER INFORMATION

HMIS Hazard Rating: Health: 1
Fire: 1
Reactivity: 0

Revised Date: 18 SEPTEMBER 2014
Prepared by: Nancy Swarts, The Indium Corporation of America
Approved by: Nancy Swarts, The Indium Corporation of America

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