This document complies with the US OSHA Hazard Communication Standard (29 CFR 1910.1200), Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), and Mexico’s NMX-R-019-SC-2011.

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**GHS product identifier**

<table>
<thead>
<tr>
<th>Product Name</th>
<th>CA-90 FXT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Code(s)</th>
<th>400432</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN-Number</td>
<td>UN3082</td>
</tr>
<tr>
<td>Synonyms</td>
<td>None</td>
</tr>
</tbody>
</table>

**Recommended use of the chemical and restrictions on use**

<table>
<thead>
<tr>
<th>Recommended Use</th>
<th>Solder mask part B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uses advised against</td>
<td>No information available</td>
</tr>
</tbody>
</table>

**Supplier’s details**

<table>
<thead>
<tr>
<th>Initial Supplier</th>
<th>Supplier Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canadian address</td>
<td>Taiyo America, Inc.</td>
</tr>
<tr>
<td></td>
<td>2675 Antler Drive</td>
</tr>
<tr>
<td></td>
<td>Carson City, NV 89701</td>
</tr>
<tr>
<td></td>
<td>TEL: 775-885-9959</td>
</tr>
</tbody>
</table>

**Emergency telephone number**

<table>
<thead>
<tr>
<th>Emergency Telephone Number</th>
<th>775-885-9959</th>
</tr>
</thead>
</table>

### 2. HAZARDS IDENTIFICATION

**Classification**

This product is considered hazardous according to the criteria set within the US OSHA Hazard Communication Standard (29 CFR 1910.1200), Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), and Mexico’s NMX-R-019-SC-2011.

<table>
<thead>
<tr>
<th>Skin Corrosion/Irritation</th>
<th>Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Skin Sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

**Label Elements**

**Warning**
Hazard Statements
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Suspected of causing cancer.

Physical and Health Hazards Not Otherwise Classified
Not applicable.

Precautionary Statements
Prevention
• Obtain special instructions before use.
• Do not handle until all safety precautions have been read and understood.
• Use personal protective equipment as required.
• Wash face, hands and any exposed skin thoroughly after handling.
• Avoid breathing dust/fume/gas/mist/vapors/spray.
• Contaminated work clothing should not be allowed out of the workplace.
• Wear protective gloves/protective clothing/eye protection/face protection.

General Advice
• If exposed or concerned: Get medical attention/advice
• Specific treatment (see supplemental first aid instructions on this label)

Eyes
• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
• If eye irritation persists: Get medical advice/attention.

Skin
• IF ON SKIN: Wash with plenty of soap and water.
• Take off contaminated clothing and wash before reuse.
• If skin irritation or rash occurs: Get medical advice/attention.

Storage
• Store locked up.

Disposal
• Dispose of contents/container to an approved waste disposal plant.

Other Information
Toxic to aquatic life with long lasting effects.

27.5% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Hazardous Material Information Review Act registry number (HMIRA registry #)</th>
<th>Date HMIRA filed and date exemption granted (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde, polymer with (chloromethyl) oxirane and phenol</td>
<td>9003-36-5</td>
<td>27.5</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

**Description of necessary first-aid measures**

**General Advice**
If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

**Eye Contact**
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

**Skin Contact**
Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

**Inhalation**
Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.

**Ingestion**
Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

**Protection of First-aiders**
Use personal protective equipment.

**Most important symptoms/effects, acute and delayed**

**Most Important Symptoms/Effects**
Itching. Rashes. May cause allergic skin reaction. Skin irritation. Eye irritation/reactions.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician**
May cause sensitization of susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**
No information available.

**Specific Hazards Arising from the Chemical**
Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by skin contact.

**Explosion Data**
- Sensitivity to Mechanical Impact: None.
- Sensitivity to Static Discharge: None.

**Protective Equipment and Precautions for Firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions**
Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak.

**Environmental Precautions**
Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Prevent entry into waterways, sewers, basements or confined areas. Avoid release to the environment. See Section 12 for
additional Ecological Information. Collect spillage. Dispose of contents/container to an approved waste disposal plant.

Methods and materials for containment and cleaning up

Methods for Containment
Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up
Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children.

Incompatible Products
Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium sulfate 7727-43-7</td>
<td>TWA: 5 mg/m³ inhalable particulate matter, particulate matter containing no asbestos and &lt;1% crystalline silica</td>
<td>TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 10 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction</td>
<td>TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust</td>
</tr>
</tbody>
</table>

Immediately Dangerous to Life or Health. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH:

Other Exposure Guidelines
Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures
Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection
Tightly fitting safety goggles.

Skin and Body Protection
Protective gloves. Lightweight protective clothing.

Respiratory Protection
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures
When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES
Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid.</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Mild Solvent.</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Cream.</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Flammable Properties</td>
<td>Combustible material: may burn but does not ignite readily</td>
<td></td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>No data available.</td>
<td>None known</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No data available.</td>
<td>None known</td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>VOC (g/l)</td>
<td>28</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity | No data available. |
Chemical stability | Stable under recommended storage conditions. |
Possibility of hazardous reactions | None under normal processing. |
Hazardous Polymerization | Hazardous polymerization does not occur. |
Conditions to avoid | Incompatible products. |
Incompatible materials | Strong oxidizing agents. |
Hazardous decomposition products | Carbon oxides. Nitrogen oxides (NOx). |

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information
- Inhalation | There is no data available for this product. |
- Eye Contact | Causes serious eye irritation. |
- Skin Contact | Causes skin irritation. May cause allergic skin reaction. |
- Ingestion | There is no data available for this product. |
Numerical measures of toxicity - Product

Unknown acute toxicity

27.5% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde, polymer with (chloromethyl) oxirane and phenol</td>
<td>&gt; 2 g/kg (Rat)</td>
<td>&gt; 400 mg/kg (Rat)</td>
<td>-</td>
</tr>
<tr>
<td>Bisphenol A - Epichlorohydrin polymer</td>
<td>11400 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Diethylene glycol monooethyl ether acetate</td>
<td>= 11 g/kg (Rat)</td>
<td>= 15100 µL/kg (Rabbit)</td>
<td>-</td>
</tr>
</tbody>
</table>

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms
No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Respiratory or Skin Sensitization
May cause sensitization of susceptible persons. May cause sensitization by skin contact.

Germ Cell Mutagenicity
No information available.

Carcinogenicity
Contains a known or suspected carcinogen. Suspected of causing cancer.

Reproductive Toxicity
No information available.

STOT - single exposure
No information available.

STOT - repeated exposure
No information available.

Chronic Toxicity
Avoid repeated exposure. Repeated contact may cause allergic reactions in very susceptible persons.

Target Organ Effects
Respiratory system. Eyes. Skin.

Aspiration Hazard
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this product has not been fully investigated.

Persistence and Degradability
No information available.

Bioaccumulation
No information available.

Mobility
No information available.

Other Adverse Effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
Should not be released into the environment. Dispose of in accordance with local regulations.

Contaminated Packaging
Do not re-use empty containers.

14. TRANSPORT INFORMATION

Note:
Not regulated in quantities less than 5 liter per individual container. See IATA SP A197, IMDG 2.10.2.7 and ADR SP 375.
15. REGULATORY INFORMATION

International Regulations

Ozone depleting substances Not applicable
Persistent Organic Pollutants Not applicable
Hazardous Waste Not applicable
The Rotterdam Convention (Prior Informed Consent) Not applicable
International Convention for the Prevention of Pollution from Ships (MARPOL) Not applicable

International Inventories

TSCA Complies
DSL Not determined
EINECS Complies
ELINCS Complies

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol monoethyl ether acetate</td>
<td>112-15-2</td>
<td>2</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium sulfate</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

U.S. EPA Label Information
EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>1</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2*</td>
<td>1</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

Prepared By: Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

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Revision Note: Update to Format.
General Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet