



# SAFETY DATA SHEET

Issuing Date 19-May-2015

Revision Date 09-Aug-2015

Revision Number 2

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

### GHS product identifier

Product Name CA-40 AM03TM (USA)

### Other means of identification

Product Code(s) 800053

UN-Number UN3082

Synonyms None

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

Recommended Use Solder mask part B

Uses advised against No information available

### Supplier's details

#### **Supplier Address**

Taiyo America, Inc.  
2675 Antler Drive  
Carson City, NV 89701  
TEL: 775-885-9959

### Emergency telephone number

Emergency Telephone Number 775-885-9959

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

|  |             |
|--|-------------|
| Skin Corrosion/Irritation                          | Category 2  |
| Serious Eye Damage/Eye Irritation                  | Category 1  |
| Skin Sensitization                                 | Category 1  |
| Germ Cell Mutagenicity                             | Category 1B |
| Specific Target Organ Toxicity (Repeated Exposure) | Category 2  |

### GHS Label elements, including precautionary statements

### Emergency Overview

Signal Word

Danger

**Hazard Statements**

- Causes skin irritation
- Causes serious eye damage
- May cause an allergic skin reaction
- May cause genetic defects
- May cause damage to organs through prolonged or repeated exposure

**Appearance** White**Physical State** Viscous liquid.**Odor** Mild Solvent**Precautionary Statements****Prevention**

- Wash face, hands and any exposed skin thoroughly after handling.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.
- Contaminated work clothing should not be allowed out of the workplace.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- 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.
- Immediately call a POISON CENTER or doctor/physician.

**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.

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

Toxic to aquatic life with long lasting effects

2.45% of the mixture consists of ingredient(s) of unknown toxicity.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name                         | CAS-No     | Weight % | Trade secret |
|---------------------------------------|------------|----------|--------------|
| Bisphenol A - Epichlorohydrin polymer | 25068-38-6 | 30-60    | *            |

|   |            |       |   |
|---|------------|-------|---|
| 1,3,5-tris-[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione | 59653-74-6 | 10-30 | * |
|---|------------|-------|---|

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

##### Description of necessary first-aid measures

|                     |   |
|---------------------|---|
| <b>Eye Contact</b>  | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician. |
| <b>Skin Contact</b> | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.                                  |
| <b>Inhalation</b>   | Move to fresh air.  |
| <b>Ingestion</b>    | Rinse mouth. Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.  |

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

**Most Important Symptoms/Effects** No information available.

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

**Notes to Physician** Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

##### Suitable Extinguishing Media

Dry powder. Dry chemical, CO<sub>2</sub>, water spray or regular foam.

**Unsuitable Extinguishing Media** No information available.

##### Specific Hazards Arising from the Chemical

Combustible liquid. Vapors may travel to source of ignition and flash back. Burning produces obnoxious and toxic fumes. Risk of ignition. In the event of fire and/or explosion do not breathe fumes. Keep product and empty container away from heat and sources of ignition. May cause sensitization by skin contact.

##### Explosion Data

**Sensitivity to Mechanical Impact**

None.

**Sensitivity to Static Discharge**

Yes.

##### Protective Equipment and Precautions for Firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

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

**Personal Precautions** Ensure adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment. Remove all sources of ignition. 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. Take precautionary measures against static discharges. Pay attention to flashback.

##### Environmental Precautions

**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. Avoid release to the environment. Dispose of contents/container to an approved waste disposal plant. See Section 12 for additional Ecological Information. Collect spillage.

**Methods and materials for containment and cleaning up**

|                                |  |
|--------------------------------|--|
| <b>Methods for Containment</b> | Prevent further leakage or spillage if safe to do so.  |
| <b>Methods for Cleaning Up</b> | Use personal protective equipment. Dam up. Take up with sand or other noncombustible absorbent material and place into containers for later disposal. Clean contaminated surface thoroughly. |

**7. HANDLING AND STORAGE****Precautions for safe handling**

|                 |  |
|-----------------|--|
| <b>Handling</b> | Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). In case of insufficient ventilation, wear suitable respiratory equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in area provided with appropriate exhaust ventilation. Keep away from heat, sparks and open flame. No smoking. Do not take internally. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. |
|-----------------|--|

**Conditions for safe storage, including any incompatibilities**

|                              |   |
|------------------------------|---|
| <b>Storage</b>               | Keep in properly labeled containers. Keep away from heat and sources of ignition. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. |
| <b>Incompatible Products</b> | Strong oxidizing agents. Strong acids. Strong bases.  |

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters**

|                            |   |
|----------------------------|---|
| <b>Exposure Guidelines</b> | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
|----------------------------|---|

**Appropriate engineering controls**

|                             |  |
|-----------------------------|--|
| <b>Engineering Measures</b> | Showers<br>Eyewash stations<br>Ventilation systems |
|-----------------------------|--|

**Individual protection measures, such as personal protective equipment**

|                                 |   |
|---------------------------------|---|
| <b>Eye/Face Protection</b>      | Tightly fitting safety goggles.   |
| <b>Skin and Body Protection</b> | Lightweight protective clothing. Impervious gloves.   |
| <b>Respiratory Protection</b>   | No special protective equipment required. If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. |
| <b>Hygiene Measures</b>         | Handle in accordance with good industrial hygiene and safety practice.  |

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

|                                    |                   |                          |                           |
|------------------------------------|-------------------|--------------------------|---------------------------|
| <b>Physical State</b>              | Viscous liquid.   | <b>Appearance</b>        | White.                    |
| <b>Odor</b>                        | Mild Solvent.     | <b>Odor Threshold</b>    | No information available. |
| <b>Property</b>                    | <b>Values</b>     | <b>Remarks/ - Method</b> |                           |
| <b>pH</b>                          | No data available | None known               |                           |
| <b>Melting Point/Range</b>         | No data available | None known               |                           |
| <b>Boiling Point/Boiling Range</b> | No data available | None known               |                           |

|  |                   |            |
|--|-------------------|------------|
| Flash Point                            | 78 °C             | None known |
| Evaporation rate                       | No data available | None known |
| Flammability (solid, gas)              | No data available | None known |
| Flammability Limits in Air             |                   |            |
| upper flammability limit               | No data available |            |
| lower flammability limit               | No data available |            |
| Vapor Pressure                         | No data available | None known |
| Vapor Density                          | No data available | None known |
| Specific Gravity                       | 1.22              | None known |
| Water Solubility                       | No data available | None known |
| Solubility in other solvents           | No data available | None known |
| Partition coefficient: n-octanol/water | No data available | None known |
| Autoignition Temperature               | No data available | None known |
| Decomposition Temperature              | No data available | None known |
| Viscosity                              | No data available | None known |

**Flammable Properties** Combustible material: may burn but does not ignite readily.

**Explosive Properties** No data available

**Oxidizing Properties** No data available

#### Other information

**VOC Content (%)** 6

**VOC (g/l)** 75

## 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

Heat, flames and sparks. Incompatible products.

### Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

### Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides. Barium oxides. Burning produces obnoxious and toxic fumes

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

##### **Inhalation**

Not an expected route of exposure

##### **Eye Contact**

Causes serious eye damage.

##### **Skin Contact**

Causes skin irritation. May cause allergic skin reaction

**Ingestion** May be harmful if swallowed.

| Chemical Name                         | LD50 Oral            | LD50 Dermal          | LC50 Inhalation                     |
|---------------------------------------|----------------------|----------------------|-------------------------------------|
| Bisphenol A - Epichlorohydrin polymer | 11400 mg/kg ( Rat )  | -                    | -                                   |
| Naphtha (petroleum), heavy aromatic   | > 5000 mg/kg ( Rat ) | > 2 mL/kg ( Rabbit ) | > 590 mg/m <sup>3</sup> ( Rat ) 4 h |

#### **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**

**Sensitization** May cause sensitization of susceptible persons. May cause sensitization by skin contact.  
**Mutagenic Effects** Contains a known or suspected mutagen. May cause genetic defects.  
**Carcinogenicity** Contains no ingredients above reportable quantities listed as a carcinogen.

**Reproductive Toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.  
**Aspiration Hazard** No information available.

#### **Numerical measures of toxicity - Product**

**Acute Toxicity** 2.45% of the mixture consists of ingredient(s) of unknown toxicity.

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

**LD50 Oral** 2606 mg/kg; Acute toxicity estimate

**LD50 Dermal** 192678227

**Inhalation**

**dust/mist** 3 mg/L; Acute toxicity estimate

**Vapor** 18 mg/L; Acute toxicity estimate

## **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects.

**Persistence and Degradability** No information available.

**Bioaccumulation**

#### **Other Adverse Effects**

No information available.

## **13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods** 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.

#### **DOT**

**UN-Number** UN3082

**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.

**Hazard Class** 9

|  |   |
|--|---|
| <b>Packing Group</b>                   | III   |
| <b>Description</b>                     | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A - Epichlorohydrin polymer), 9, III |
| <b>Emergency Response Guide Number</b> | 171   |

**TDG**

|                             |   |
|-----------------------------|---|
| <b>UN-Number</b>            | UN3082  |
| <b>Proper Shipping Name</b> | Environmentally hazardous substance, liquid, n.o.s.   |
| <b>Hazard Class</b>         | 9   |
| <b>Packing Group</b>        | III   |
| <b>Description</b>          | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A - Epichlorohydrin polymer), 9, III |

**MEX**

|                             |   |
|-----------------------------|---|
| <b>UN-Number</b>            | UN3082  |
| <b>Proper Shipping Name</b> | Environmentally hazardous substance, liquid, n.o.s.   |
| <b>Hazard Class</b>         | 9   |
| <b>Packing Group</b>        | III   |
| <b>Description</b>          | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A - Epichlorohydrin polymer), 9, III |

**ICAO**

|                             |   |
|-----------------------------|---|
| <b>UN-Number</b>            | UN3082  |
| <b>Proper shipping name</b> | Environmentally hazardous substance, liquid, n.o.s.                 |
| <b>Hazard Class</b>         | 9   |
| <b>Packing Group</b>        | III   |
| <b>Description</b>          | UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III |

**IATA**

|                             |   |
|-----------------------------|---|
| <b>UN-Number</b>            | UN3082  |
| <b>Proper Shipping Name</b> | Environmentally hazardous substance, liquid, n.o.s.   |
| <b>Hazard Class</b>         | 9   |
| <b>Packing Group</b>        | III   |
| <b>ERG Code</b>             | 9L  |
| <b>Description</b>          | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A - Epichlorohydrin polymer), 9, III |

**IMDG/IMO**

|                             |   |
|-----------------------------|---|
| <b>UN-Number</b>            | UN3082  |
| <b>Proper Shipping Name</b> | Environmentally hazardous substance, liquid, n.o.s.   |
| <b>Hazard Class</b>         | 9   |
| <b>Packing Group</b>        | III   |
| <b>EmS No.</b>              | F-A, S-F  |
| <b>Description</b>          | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A - Epichlorohydrin polymer), 9, III |

**RID**

|                             |   |
|-----------------------------|---|
| <b>UN-Number</b>            | UN3082  |
| <b>Proper Shipping Name</b> | Environmentally hazardous substance, liquid, n.o.s.   |
| <b>Hazard Class</b>         | 9   |
| <b>Packing Group</b>        | III   |
| <b>Classification Code</b>  | M6  |
| <b>Description</b>          | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A - Epichlorohydrin polymer), 9, III |

**ADR**

|                                |  |
|--------------------------------|--|
| <b>UN-Number</b>               | UN3082   |
| <b>Proper Shipping Name</b>    | Environmentally hazardous substance, liquid, n.o.s.  |
| <b>Hazard Class</b>            | 9  |
| <b>Packing Group</b>           | III  |
| <b>Classification Code</b>     | M6   |
| <b>Tunnel Restriction Code</b> | (E)  |
| <b>Description</b>             | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A - Epichlorohydrin polymer), 9, III, (E) |

ADR/RID-Labels 9

**ADN**

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard Class** 9  
**Packing Group** III  
**Classification Code** M6  
**Special Provisions** 274, 335, 601  
**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A - Epichlorohydrin polymer), 9, III  
**Limited Quantity** 5 L

**15. REGULATORY INFORMATION****International Inventories**

**TSCA** Complies  
**EINECS** Complies  
**ELINCS** Complies

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**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:

| Chemical Name                             | CAS-No   | Weight % | SARA 313 - Threshold Values % |
|---|----------|----------|-------------------------------|
| Diethylene glycol monoethyl ether acetate | 112-15-2 | 5-10     | 1.0                           |

**SARA 311/312 Hazard Categories**

**Acute Health Hazard** Yes  
**Chronic Health Hazard** Yes  
**Fire Hazard** Yes  
**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 contains the following Proposition 65 chemicals:

| Chemical Name | CAS-No  | California Prop. 65 |
|---------------|---------|---------------------|
| Naphthalene   | 91-20-3 | Carcinogen          |

**U.S. State Right-to-Know Regulations**

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

| Chemical Name | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|---------------|------------|---------------|--------------|----------|--------------|
| Melamine      | X          | X             | X            |          |              |
| Naphthalene   | X          | X             | X            | X        |              |

|                        |   |   |   |   |   |
|------------------------|---|---|---|---|---|
| 1,2,4 Trimethylbenzene | X | X | X | X | X |
|------------------------|---|---|---|---|---|

**U.S. EPA Label Information****EPA Pesticide Registration Number** Not applicable**16. OTHER INFORMATION**

|             |                         |                       |                          |  |
|-------------|-------------------------|-----------------------|--------------------------|--|
| <b>NFPA</b> | <b>Health Hazard</b> 3  | <b>Flammability</b> 2 | <b>Instability</b> 0     | <b>Physical and Chemical Hazards -</b> |
| <b>HMIS</b> | <b>Health Hazard</b> 3* | <b>Flammability</b> 2 | <b>Physical Hazard</b> 0 | <b>Personal Protection</b> X           |

**Prepared By** Product Stewardship  
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1-800-572-6501

**Issuing Date** 19-May-2015  
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**Revision Note** (M)SDS sections updated: 1.

**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**