

Issuing Date 24-May-2015

Revision Date 24-May-2015

Revision Number 0

## Section 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product Code(s) 400432

Product Name CA-90 FXT

Contains Formaldehyde, polymer with (chloromethyl) oxirane and phenol, Biphenyl, 4,4'-bis-3,3,5,5-tetramethyl-, Bisphenol A - Epichlorohydrin polymer

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Solder mask part B

Uses advised against No information available

### 1.3. Details of the supplier of the safety data sheet

#### Company

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

#### For further information, please contact

E-mail Address No information available.

### 1.4. Emergency telephone number

Emergency Telephone Number 775-885-9959

Europe	112
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## Section 2. Hazards identification

### 2.1. - Classification of the substance or mixture

#### REGULATION (EC) No 1272/2008

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1
Carcinogenicity	Category 2
Chronic Aquatic Toxicity	Category 2

#### Physical Hazards

None

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Symbol(s) Xn - Harmful

R-code(s) Carc. cat. 3;R40 - Xi;R36/38 - R43 - R52-53

For the full text of the R-phrases mentioned in this Section, see Section 16

**2.2. Label Elements****Signal Word****Warning****Hazard Statements**

H315 - Causes skin irritation  
 H317 - May cause an allergic skin reaction  
 H319 - Causes serious eye irritation  
 H351 - Suspected of causing cancer  
 H411 - Toxic to aquatic life with long lasting effects

**Precautionary Statements**

P362 - Take off contaminated clothing and wash before reuse  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection  
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
 P201 - Obtain special instructions before use  
 P273 - Avoid release to the environment  
 P391 - Collect spillage

**2.3. Other information****Section 3. Composition/information on ingredients****3.1. Substances**

Not applicable

**3.2. Mixtures**

Chemical Name	EC-No	CAS-No	Weight %	Classification	EU - GHS Substance Classification	REACH No.
Formaldehyde, polymer with (chloromethyl) oxirane and phenol	-	9003-36-5	20-30	-	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)	No data available
Barium sulfate	Present	7727-43-7	20-30	Xn; R20/22		No data available
Biphenyl, 4,4'-bis-3,3,5,5-tetramethyl	413-900-7	85954-11-6	10-20	Carc.Cat.3; R40 R43	Carc. 2 (H351) Skin Sens. 1 (H317)	No data available
Bisphenol A - Epichlorohydrin polymer	500-033-5	25068-38-6	7-13	Xi; R36/38 R43 N; R51-53	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	No data available

**For the full text of the R-phrases mentioned in this Section, see Section 16**

**For the full text of the H-Statements mentioned in this Section, see Section 16**

## Section 4. First aid measures

### 4.1. Description of first-aid measures

<b>General Advice</b>	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.
<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. Keep eye wide open while rinsing. 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>Ingestion</b>	Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
<b>Inhalation</b>	Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
<b>Protection of First-aiders</b>	Use personal protective equipment.

### 4.2. Most important symptoms and effects, both acute and delayed

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

### 4.3. Indication of immediate medical attention and special treatment needed

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

## Section 5. Fire-fighting measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Extinguishing media which must not be used for safety reasons**

No information available.

### 5.2. Special hazards arising from the substance or mixture

**Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

None in particular.

### 5.3. Advice for firefighters

**Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

## Section 6. Accidental release measures

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

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

### 6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### 6.3. Methods and materials for containment and cleaning up

Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

### 6.4. Reference to other sections

See Section 12 for additional information.

## Section 7. Handling and storage

### 7.1. Precautions for Safe Handling

#### Handling

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

#### Hygiene Measures

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

### 7.2. Conditions for safe storage, including any incompatibilities

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

### 7.3. Specific end use(s)

#### Exposure Scenario

No information available.

#### Other Guidelines

No information available.

## Section 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

Chemical Name	EU	The United Kingdom	France	Spain	Germany
Barium sulfate 7727-43-7		STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup> TWA: 1.5 mg/m <sup>3</sup> Ceiling / Peak: 4 mg/m <sup>3</sup>
Component	Italy	Portugal	The Netherlands	Finland	Denmark
Barium sulfate 7727-43-7 ( 20-30 )		TWA: 10 mg/m <sup>3</sup>			
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Barium sulfate 7727-43-7				TWA: 0.5 mg/m <sup>3</sup> STEL: 1.5 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>

**Derived No Effect Level** No information available

**Predicted No Effect Concentration (PNEC)** No information available.

**8.2. Exposure controls**

<b>Engineering Measures</b>	Ensure adequate ventilation, especially in confined areas.
<b>Personal protective equipment</b>	
<b>Eye Protection</b>	Safety glasses with side-shields.
<b>Skin and Body Protection</b>	Lightweight protective clothing.
<b>Hand Protection</b>	Impervious gloves.
<b>Respiratory Protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Environmental Exposure Controls** Do not allow material to contaminate ground water system.

## Section 9. Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

<b>Physical State</b>	Liquid	<b>Appearance</b>	Cream
<b>Odor</b>	Mild Solvent		

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
<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
<b>Flash Point</b>	100 °C	None known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Vapor Pressure</b>	No data available	None known
<b>Vapor Density</b>	No data available	None known
<b>Relative Density</b>	1.39	None known
<b>Water Solubility</b>	No data available	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition Temperature</b>	No data available	None known
<b>Decomposition Temperature</b>	No data available	None known
<b>Viscosity</b>	No data available	None known
<b>Flammable Properties</b>	Combustible material: may burn but does not ignite readily.	
<b>Explosive Properties</b>	No data available	
<b>Oxidizing Properties</b>	No data available	

**9.2. Other information**

<b>VOC Content (%)</b>	2
<b>VOC (g/l)</b>	28
<b>Flammability Limits in Air</b>	No data available

## Section 10. Stability and reactivity

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

None under normal processing.

**10.4. Conditions to avoid**

Incompatible products.

**10.5. Incompatible materials**

Strong oxidizing agents.

#### **10.6. Hazardous decomposition products**

Carbon oxides. Nitrogen oxides (NOx).

## **Section 11. Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute Toxicity**

##### **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.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Formaldehyde, polymer with (chloromethyl) oxirane and phenol	> 2 g/kg ( Rat )	> 400 mg/kg ( Rat )	
Bisphenol A - Epichlorohydrin polymer	11400 mg/kg ( Rat )	-	-

#### **Sensitization**

May cause sensitization of susceptible persons. May cause sensitization by skin contact.

#### **Mutagenic Effects**

No information available.

#### **Carcinogenic Effects**

Contains a known or suspected carcinogen. May cause cancer.

#### **Reproductive Toxicity**

No information available.

#### **Developmental Toxicity**

No information available.

#### **STOT - single exposure**

No information available.

#### **STOT - repeated exposure**

No information available.

##### **Target Organ Effects**

Eyes. Respiratory system.

#### **Aspiration Hazard**

No information available.

## **Section 12. Ecological information**

### **12.1. Toxicity**

#### **Ecotoxicity Effects**

Toxic to aquatic life with long lasting effects

### **12.2. Persistence and degradability**

No information available.

### **12.3. Bioaccumulative potential.**

No information available.

### **12.4. Mobility in soil**

Adsorbs on soil.

### **12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Other adverse effects**

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Bisphenol A - Epichlorohydrin polymer	Group III Chemical		

**Section 13. Disposal considerations****13.1. Waste treatment methods**

<b>Waste from Residues / Unused Products</b>	Dispose of in accordance with local regulations.
<b>Contaminated Packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>Other Information</b>	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

**Section 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.

**IMDG/IMO**

<b>14.1. UN-Number</b>	UN3082
<b>14.2. Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>14.3. Hazard Class</b>	9
<b>14.4. Packing Group Description</b>	III UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A - Epichlorohydrin polymer; Formaldehyde, polymer with (chloromethyl) oxirane and phenol), 9, III
<b>14.5. Marine Pollutant Environmental hazard</b>	None. yes
<b>14.6. Special Provisions EmS No.</b>	None. F-A, S-F
<b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	No information available.

**RID**

<b>14.1. UN-Number</b>	UN3082
<b>14.2. Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>14.3. Hazard Class</b>	9
<b>14.4. Packing Group Description</b>	III UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A - Epichlorohydrin polymer; Formaldehyde, polymer with (chloromethyl) oxirane and phenol), 9, III
<b>14.5. Environmental hazard</b>	yes
<b>14.6. Special Provisions Classification Code</b>	None. M6

**ADR**

<b>14.1. UN-Number</b>	UN3082
<b>14.2. Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>14.3. Hazard Class</b>	9
<b>ADR/RID-Labels</b>	9
<b>14.4. Packing Group</b>	III

<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A - Epichlorohydrin polymer; Formaldehyde, polymer with (chloromethyl) oxirane and phenol), 9, III, (E)
<b>14.5. Environmental hazard</b>	yes
<b>14.6. Special Provisions</b>	None.
<b>Classification Code</b>	M6
<b>Tunnel Restriction Code</b>	(E)

**ICAO**

<b>14.1. UN-Number</b>	UN3082
<b>14.2. Proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>14.3. Hazard Class</b>	9
<b>14.4. Packing Group</b>	III
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III
<b>14.5. Environmental hazard</b>	yes
<b>14.6. Special Provisions</b>	None.

**IATA**

<b>14.1. UN-Number</b>	UN3082
<b>14.2. Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>14.3. Hazard Class</b>	9
<b>14.4. Packing Group</b>	III
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A - Epichlorohydrin polymer; Formaldehyde, polymer with (chloromethyl) oxirane and phenol), 9, III
<b>14.5. Environmental hazard</b>	yes
<b>14.6. Special Provisions</b>	None.
<b>ERG Code</b>	9L

## Section 15. Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Inventories

<b>TSCA</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>DSL/NDSL</b>	-
<b>PICCS</b>	-
<b>ENCS</b>	-
<b>IECSC</b>	-
<b>AICS</b>	-
<b>KECL</b>	-

**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

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

### 15.2. Chemical Safety Assessment

No information available

## Section 16. Other information



**Full text of R-phrases referred to under Sections 2 and 3**

R40 - Limited evidence of a carcinogenic effect

R43 - May cause sensitization by skin contact

R36/38 - Irritating to eyes and skin

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R20/22 - Harmful by inhalation and if swallowed

**Full text of H-Statements referred to under sections 2 and 3**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H411 - Toxic to aquatic life with long lasting effects

H351 - Suspected of causing cancer

**Key literature references and sources for data**[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)**Issuing Date** 24-May-2015**Revision Date** 24-May-2015**Revision Note** Initial Release.

**This safety data sheet complies with the requirements of Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006**

**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