# SAFETY DATA SHEET

Issuing Date 24-May-2015 Revision Date 28-Feb-2017 Revision Number 1

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

Product Name CA-90 FXT

Other means of identification

Product Code(s) 400432

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

Initial Supplier Supplier Address

Canadian address required 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 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.

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

## **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)

#### Eves

- 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

Chemical Name	CAS-No		Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Formaldehyde, polymer with (chloromethyl) oxirane and phenol	9003-36-5	27.5	-	-

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Barium sulfate	7727-43-7	23.4	-	-
4,4'-Bis(2,3-epoxypropoxy)-3,3',5,5'-tetramethyl	85954-11-6	14	-	-
(1,1'-biphenyl)				
Bisphenol A - Epichlorohydrin polymer	25068-38-6	10.22	-	-

### 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.

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and **Eve Contact** 

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

Wash off immediately with soap and plenty of water removing all contaminated clothes and **Skin Contact** 

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.

Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an Ingestion

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** Sensitivity to Static Discharge

None. 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

Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with **Personal Precautions** 

skin, eyes and clothing. Keep people away from and upwind of spill/leak.

**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. 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**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Barium sulfate	TWA: 5 mg/m³ inhalable	TWA: 15 mg/m³ total dust	TWA: 10 mg/m <sup>3</sup> total dust
7727-43-7	particulate matter, particulate	TWA: 5 mg/m³ respirable fraction	TWA: 5 mg/m <sup>3</sup> respirable dust
	matter containing no asbestos	(vacated) TWA: 10 mg/m³ total	-
	and <1% crystalline silica	dust	
	-	(vacated) TWA: 5 mg/m <sup>3</sup>	
		respirable fraction	

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

Skin and Body Protection Respiratory Protection

Tightly fitting safety goggles.

Protective gloves. Lightweight protective clothing.

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

Physical State Liquid. Appearance Cream.

Odor Mild Solvent. Odor Threshold No information available.

<u>Property</u> <u>Values</u> <u>Remarks/ - Method</u>

No data available pН None known Melting Point/Range No data available None known **Boiling Point/Boiling Range** No data available None known 100 °C Flash Point None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known

Flammability Limits in Air

upper flammability limitNo data availablelower flammability limitNo data available

**Vapor Pressure** No data available None known **Vapor Density** No data available None known **Specific Gravity** No data available None known Water Solubility No data available None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/waterNo 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 (%) 2 VOC (g/l) 28

# 10. STABILITY AND REACTIVITY

**Reactivity** No data available.

<u>Chemical stability</u> Stable under recommended storage conditions.

**Possibility of hazardous reactions** None under normal processing.

<u>Hazardous Polymerization</u> Hazardous polymerization does not occur.

Conditions to avoid Incompatible products.

<u>Incompatible materials</u> Strong oxidizing agents.

<u>Hazardous decomposition products</u> 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:

**LD50 Oral** 63494 mg/kg; Acute toxicity estimate **LD50 Dermal** 73003 mg/kg; Acute toxicity estimate

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Formaldehyde, polymer with	> 2 g/kg (Rat)	> 400 mg/kg (Rat)	-
(chloromethyl) oxirane and phenol			
Bisphenol A - Epichlorohydrin	11400 mg/kg (Rat)	-	=
polymer			
Diethylene glycol monoethyl ether	= 11 g/kg (Rat)	= 15100 μL/kg (Rabbit)	-
acetate			

### 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

Germ Cell Mutagenicity

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

No information available.

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

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

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

susceptible persons.

Target Organ Effects
Aspiration Hazard

Respiratory system. Eyes. Skin.

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.

DOT

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**UN-Number** UN3082

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

**Hazard Class** Ш **Packing Group** 

Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A -

Epichlorohydrin polymer; Formaldehyde, polymer with (chloromethyl) oxirane and phenol),

9, III 171

**Emergency Response Guide** 

Number

**TDG** 

**UN-Number** UN3082

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.

**Hazard Class Packing Group** 

Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A -

Epichlorohydrin polymer; Formaldehyde, polymer with (chloromethyl) oxirane and phenol),

9. III

MEX

**UN-Number** UN3082

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.

**Hazard Class Packing Group** Ш

Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A -

Epichlorohydrin polymer: Formaldehyde, polymer with (chloromethyl) oxirane and phenol),

9. III

IATA

**UN-Number** UN3082

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.

**Hazard Class Packing Group** Ш **ERG Code** 9L

UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A -Description

Epichlorohydrin polymer; Formaldehyde, polymer with (chloromethyl) oxirane and phenol),

9, III

IMDG/IMO

**UN-Number** UN3082

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.

**Hazard Class** 9 **Packing Group** Ш F-A, S-F EmS No.

UN3082, Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A -Description

Epichlorohydrin polymer; Formaldehyde, polymer with (chloromethyl) oxirane and phenol),

# 15. REGULATORY INFORMATION

**International Regulations** 

Ozone depleting substances Not applicable **Persistent Organic Pollutants** Not applicable **Hazardous Waste** Not applicable Not applicable

The Rotterdam Convention (Prior

Informed Consent)

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:

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

#### 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.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Barium sulfate	X	X	X		

# U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION					
NFPA	Health Hazard 2	Flammability 1	Instability 0	Physical and Chemical Hazards -	
<u>HMIS</u>	Health Hazard 2*	Flammability 1	Physical Hazard 0	Personal Protection X	
Prepared By	23 British	Stewardship American Blvd. NY 12110 2-6501			
Issuing Date Revision Date Revision Note	24-May-2015 28-Feb-2017 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**