



# SAFETY DATA SHEET

Issuing Date 24-May-2015

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Revision Number 0

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

### 1.1. Product identifier

Product Code(s) 800034

Product Name CA-90 LDI

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

### 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 3

#### Physical Hazards

None

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

Symbol(s) Xn - Harmful

R-code(s) Carc. cat. 3;R40 - Xn;R20/22 - R43

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  
 H412 - Harmful 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

**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.
Barium sulfate	Present	7727-43-7	10-30	Xn; R20/22		No data available
Biphenyl, 4,4'-bis-3,3,5,5-tetramethyl	413-900-7	85954-11-6	10-30	Carc.Cat.3; R40 R43	Carc. 2 (H351) Skin Sens. 1 (H317)	No data available
Formaldehyde, polymer with (chloromethyl) oxirane and phenol	-	9003-36-5	10-30	-	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) 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****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.

<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. 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 difficult, give oxygen. 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 ( 10-30 )		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****Engineering Measures**

Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment****Eye Protection**

Safety glasses with side-shields.

**Skin and Body Protection**

Lightweight protective clothing.

**Hand Protection**

Impervious gloves.

**Respiratory Protection**

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>	Viscous liquid	<b>Appearance</b>	White
<b>Odor</b>	Mild Solvent		

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	No data available	None known
Melting Point/Range	No data available	None known
Boiling Point/Boiling Range	No data available	None known
Flash Point	100 °C	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Relative Density	1.25	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	

### 9.2. Other information

VOC Content (%)	1
VOC (g/l)	14
Flammability Limits in Air	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
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Formaldehyde, polymer with (chloromethyl) oxirane and phenol	> 2 g/kg ( Rat )	> 400 mg/kg ( Rat )	
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<b>Sensitization</b>	May cause sensitization of susceptible persons. May cause sensitization by skin contact.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenic Effects</b>	Contains a known or suspected carcinogen. May cause cancer.
<b>Reproductive Toxicity</b>	No information available.
<b>Developmental Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration Hazard</b>	No information available.

## Section 12. Ecological information

### 12.1. Toxicity

#### **Ecotoxicity Effects**

Harmful 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

This product does not contain any known or suspected endocrine disruptors.

## Section 13. Disposal considerations

### 13.1. Waste treatment methods

#### **Waste from Residues / Unused Products**

Dispose of in accordance with local regulations.

#### **Contaminated Packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal.

## Section 14. Transport information

### IMDG/IMO

#### **14.1. UN-Number**

Not regulated.

#### **14.2. Proper Shipping Name**

Not regulated.

#### **14.3. Hazard Class**

Not regulated.

<b>14.4. Packing Group</b>	Not regulated.
<b>Description</b>	Not applicable.
<b>14.5. Marine Pollutant</b>	None.
<b>14.6. Special Provisions</b>	None.
<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>	Not regulated.
<b>14.2. Proper Shipping Name</b>	Not regulated.
<b>14.3. Hazard Class</b>	Not regulated.
<b>14.4. Packing Group</b>	Not regulated.
<b>Description</b>	Not applicable.
<b>14.5. Environmental hazard</b>	None.
<b>14.6. Special Provisions</b>	None.

**ADR**

<b>14.1. UN-Number</b>	Not regulated.
<b>14.2. Proper Shipping Name</b>	Not regulated.
<b>14.3. Hazard Class</b>	Not regulated.
<b>14.4. Packing Group</b>	Not regulated.
<b>Description</b>	Not applicable.
<b>14.5. Environmental hazard</b>	None.
<b>14.6. Special Provisions</b>	None.

**ICAO**

<b>14.1. UN-Number</b>	Not regulated.
<b>14.2. Proper shipping name</b>	Not regulated.
<b>14.3. Hazard Class</b>	Not regulated.
<b>14.4. Packing Group</b>	Not regulated.
<b>Description</b>	Not applicable.
<b>14.5. Environmental hazard</b>	None.
<b>14.6. Special Provisions</b>	None.

**IATA**

<b>14.1. UN-Number</b>	Not regulated.
<b>14.2. Proper Shipping Name</b>	Not regulated.
<b>14.3. Hazard Class</b>	Not regulated.
<b>14.4. Packing Group</b>	Not regulated.
<b>Description</b>	Not applicable.
<b>14.5. Environmental hazard</b>	None.
<b>14.6. Special Provisions</b>	None.

<b>Section 15. Regulatory information</b>
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**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

R20/22 - Harmful by inhalation and if swallowed

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

H317 - May cause an allergic skin reaction

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

H412 - Harmful 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

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**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**

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End of Safety Data Sheet