# SAFETY DATA SHEET



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) 800084

Product Name CA-40 CC01SE

Contains Trimethylolpropane triacrylate(non-stabilised), 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 011-775-461-8401

Number

Europe 112

### Section 2. Hazards identification

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

### REGULATION (EC) No 1272/2008

REGULATION (EC) NO 121212000	
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1
Chronic Aquatic Toxicity	Category 3

### **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) Xi - Irritant

**R-code(s)** 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

H412 - Harmful to aquatic life with long lasting effects

### **Precautionary Statements**

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/ attention

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P332 + P313 - If skin irritation occurs: Get medical advice/ attention

P362 - Take off contaminated clothing and wash before reuse

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

### 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.
Bisphenol A - Epichlorohydrin polymer	500-033-5	25068-38-6	10-30	Xi; R36/38 R43 N; R51-53	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	
Dipropylene glycol monomethyl ether	252-104-2	34590-94-8	10-30	-		No data available
Trimethylolpropane triacrylate	Present	15625-89-5	5-10	Xi; R36/38 R43	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	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.

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. Consult a physician if necessary.

Ingestion Do NOT induce vomiting. Drink plenty of water. Rinse mouth. If symptoms persist, call a

physician.

**Inhalation** Move to fresh air. If breathing is irregular or stopped, administer artificial respiration.

Consult a physician.

**Protection of First-aiders**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.

# 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 Combustible material. Vapors may travel to source of ignition and flash back. Thermal decomposition can lead to release of irritating gases and vapors.

### 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

Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Pay attention to flashback. Take precautionary measures against static discharges.

#### 6.2. 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.

### 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. Remove all sources of ignition. Keep away from heat, sparks and open flame. No smoking. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

### **Hygiene Measures**

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs.

#### 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 away from heat and sources of ignition.

### 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
Dipropylene glycol	S*	STEL: 150 ppm	VME: 50 ppm	S*	MAK: 50 ppm
monomethyl ether	TWA 50 ppm	STEL: 924 mg/m <sup>3</sup>	VME: 308 mg/m <sup>3</sup>	VLA-ED: 50 ppm	MAK: 310 mg/m <sup>3</sup>
34590-94-8	TWA 308 mg/m <sup>3</sup>	TWA: 50 ppm		VLA-ED: 308 mg/m <sup>3</sup>	Ceiling / Peak: 50 ppm
		TWA: 308 mg/m <sup>3</sup>			Ceiling / Peak: 310
		Skin			mg/m³
					TWA: 50 ppm
					TWA: 310 mg/m <sup>3</sup>
Component	Italy	Portugal	The Netherlands	Finland	Denmark
Dipropylene glycol	TWA: 50 ppm	STEL: 150 ppm	TWA: 300 mg/m <sup>3</sup>	TWA: 50 ppm	TWA: 50 ppm
monomethyl ether	TWA: 308 mg/m <sup>3</sup>	TWA: 100 ppm		TWA: 310 mg/m <sup>3</sup>	TWA: 300 mg/m <sup>3</sup>
34590-94-8 ( 10-30 )	Skin			Skin	Skin
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Dipropylene glycol	Skin	STEL: 50 ppm	NDSCh: 480 mg/m <sup>3</sup>	TWA: 50 ppm	TWA: 50 ppm
monomethyl ether	STEL 100 ppm	STEL: 300 mg/m <sup>3</sup>	NDS: 240 mg/m <sup>3</sup>	TWA: 300 mg/m <sup>3</sup>	TWA: 308 mg/m <sup>3</sup>
34590-94-8	STEL 614 mg/m <sup>3</sup>	MAK: 50 ppm	·	Skin	Skin
	MAK: 50 ppm	MAK: 300 mg/m <sup>3</sup>		STEL: 75 ppm	
	MAK: 307 mg/m <sup>3</sup>			STEL: 375 mg/m <sup>3</sup>	

**Derived No Effect Level Predicted No Effect Concentration** (PNEC)

No information available No information available.

### 8.2. Exposure controls

**Engineering Measures** Personal protective equipment **Eye Protection** 

Safety glasses with side-shields. Lightweight protective clothing.

**Skin and Body Protection** 

Impervious gloves.

**Hand Protection** 

Ensure adequate ventilation, especially in confined areas.

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

Physical State Liquid Appearance Clear Amber

Odor Organic solvent

Property Values Remarks/ - Method

No data available pН None known No data available **Melting Point/Range** None known No data available None known **Boiling Point/Boiling Range** None known 80 °C **Flash Point 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** 1.12 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 No data available **Viscosity** 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 (%) No information available

VOC (g/l) 264

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

Heat, flames and sparks. 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.

**Eve 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
Bisphenol A - Epichlorohydrin polymer	11400 mg/kg (Rat)	-	-
Dipropylene glycol monomethyl ether	= 5230 mg/kg (Rat)	= 9500 mg/kg ( Rabbit )	
Trimethylolpropane triacrylate	> 5000 mg/kg (Rat)	= 5000 mg/kg (Rabbit)	

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

Mutagenic Effects
No information available.
Carcinogenic Effects
No information available.

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

Target Organ Effects Central nervous system (CNS). Eyes. Respiratory system.

**Aspiration Hazard** No information available.

### **Section 12. Ecological information**

### 12.1. Toxicity

### **Ecotoxicity Effects**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Dipropylene glycol monomethyl ether		LC50 96 h: > 10000 mg/L static (Pimephales		LC50 48 h: = 1919 mg/L (Daphnia magna)
		promelas)		

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential.

Chemical Name	Log Pow	
Dipropylene glycol monomethyl ether	-0.064	

### 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.

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

## 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.

Other Information

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

#### IMDG/IMO

14.1. UN-Number Not regulated. Not regulated. 14.2. Proper Shipping Name 14.3. Hazard Class Not regulated. 14.4. Packing Group Not regulated. Not applicable. Description

14.5. Marine Pollutant None. None. 14.6. Special Provisions

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and

No information available.

the IBC Code

#### RID

14.1. UN-Number Not regulated. Not regulated. 14.2. Proper Shipping Name 14.3. Hazard Class Not regulated. 14.4. Packing Group Not regulated. Not applicable. Description

14.5. Environmental hazard None. 14.6. Special Provisions None.

#### ADR

14.1. UN-Number Not regulated. Not regulated. 14.2. Proper Shipping Name Not regulated. 14.3. Hazard Class 14.4. Packing Group Not regulated. Description Not applicable.

14.5. Environmental hazard None. 14.6. Special Provisions None.

#### ICAO

14.1. UN-Number Not regulated. Not regulated. 14.2. Proper shipping name 14.3. Hazard Class Not regulated. 14.4. Packing Group Not regulated. Not applicable. Description 14.5. Environmental hazard None.

14.6. Special Provisions None.

IATA

14.1. UN-NumberNot regulated.14.2. Proper Shipping NameNot regulated.14.3. Hazard ClassNot regulated.14.4. Packing GroupNot regulated.DescriptionNot applicable.

**14.5. Environmental hazard** None. **14.6. Special Provisions** None.

# Section 15. Regulatory information

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

#### International Inventories

TSCA Complies EINECS/ELINCS Complies

DSL/NDSL PICCS ENCS IECSC AICS KECL -

#### 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

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

### 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

H412 - Harmful to aquatic life with long lasting effects

#### Key literature references and sources for data

www.ChemADVISOR.com/

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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**