

SDS No. 11-2-032-(1)-E, Eugenol Cement Liquid

**SAFETY DATA SHEET**

Number: 11-2-032-(1)-E

Date prepared: 2011 Apr 11

Date revised: 2016 Mar 16

**1. Chemical Product and Company Identification**

Product code: -

Product name: Eugenol Cement Liquid

Manufacturer / Supplier:

GC Corporation, 76-1 Hasunuma-Cho, Itabashi-Ku, Tokyo, Japan

Postal code 174-8585, Phone 81-3-3965-1388, Fax 81-3-3965-1276

**2. Hazards Identification****GHS label elements, including precautionary statements****Pictograms or hazard symbols (Referring to eugenol)****[Prevention]** Avoid breathing dust/fume/gas/mist/vapours/spray.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

In case of inadequate ventilation wear respiratory protection.

Wear protective gloves/eye protection/face protection.

**[Response]** IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Rinse mouth.

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.

IF ON SKIN: Gently wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

**3. Composition / Information on Ingredients**

(% chemical components by WT)

Eugenol	70
Rosin	26
Olive oil	4

**4. First Aid Measures**

(Referring to Eugenol)

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.**Skin contact:** Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.**Eye contact:** 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.**Ingestion:** Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.**Protection of first-aiders:** A rescuer should wear personal protective equipment, such as rubber gloves and airtight goggles.**5. Fire Fighting Measures**

(Referring to Eugenol)

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**Suitable extinguishing media:** Dry chemical, foam, water spray, carbon dioxide.

**Unsuitable extinguishing media:** Solid streams of water

**Precautions for firefighters:** Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

**Special protective equipment for firefighters:**

When extinguishing fire, be sure to wear personal protective equipment.

## 6. Accidental Release Measures

(Referring to Eugenol)

**Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Keep people away from and upwind of spill/leak.

Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

**Environmental precautions:** Prevent product from entering drains.

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

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust).

In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

## 7. Handling and Storage

(Referring to Eugenol)

**Precautions for safe handling**

**Technical measures:** Handling is performed in a well ventilated place. Wear suitable protective equipment.

Prevent generation of vapour or mist. Wash hands and face thoroughly after handling.

Use a ventilation, local exhaust if vapour or aerosol will be generated.

**Advice on safe handling:** Avoid contact with skin, eyes and clothing.

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

**Storage conditions:** Keep container tightly closed. Store in a cool and dark place.

Store away from incompatible materials such as oxidizing agents.

## 8. Exposure Controls, Personal Protection

(Referring to Eugenol)

**Engineering controls:** Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.

**Control parameters:** Not set up

**Personal protective equipment**

**Respiratory protection:** Vapor respirator. Follow local and national regulations.

**Hand protection:** Protective gloves.

**Eye protection:** Safety glasses. A face-shield, if the situation requires.

**Skin and body protection:** Protective clothing. Protective boots, if the situation requires.

## 9. Physical and Chemical Properties

(Referring to eugenol)

**Appearance:** Yellowish brown liquid

**Odor:** Specific odor

**Melting point/freezing point:** -9°C

**Boiling point/range:** 254°C

**Flash point:** 127°C

**Flammability or explosive limits:**

**Lower:** No data available

**Upper:** No data available

**Vapour pressure:** 0.1kPa/78°C

**Relative density:** 1.07

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**Solubility(ies):**

**[Water]** Very slightly soluble (2.43g/L, 25°C)

**[Other solvents]**

**Miscible:** Ether, Alcohols, Chloroform

**Log Pow:** 2.4

**10. Stability and Reactivity**

(Referring to eugenol)

**Chemical stability:** Stable under proper conditions.

**Possibility of hazardous reactions:** No special reactivity has been reported.

**Incompatible materials:** Oxidizing agents

**Hazardous decomposition products:** Carbon monoxide, Carbon dioxide

**11. Toxicological Information**

(Referring to Eugenol)

**Acute Toxicity:** ihl-rat LC:>2580 mg/m<sup>3</sup>/4H

ipr-rat LDLo:800 mg/kg

ori-mus LD50:3 g/kg

ori-rat LD50:1930 mg/kg

**Skin corrosion/irritation:** skn-rbt 100 mg/24H SEV

skn-hmn 40 mg/48H MLD

skn-man 16 mg/48H MOD

skn-pig 50 mg/48H MLD

**Serious eye damage/irritation:** No data available

**Germ cell mutagenicity:** cyt-hmn-lym 170 mg/L/24H

dnd-rat-lvr 50 umol/L

mmo-sat 50 ug/plate (-S9)

oms-ham-ovr 400 mg/L

**12. Ecological Information**

No data available

**13. Disposal Considerations**

(Referring to Eugenol)

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

**14. Transport Information**

(Referring to Eugenol)

**Hazards Class:** Does not correspond to the classification standard of the United Nations

**UN-No:** Not listed

**15. Regulatory Information**

**Fire Defense Law (Japan):** Class-4 No.3 petroleum Dangerous grade 3 Not water-soluble fluid

**16. Other Information**

**The reference company name of written contents**

**Company:** TOKYO CHEMICAL INDUSTRY CO., LTD.

**Address:** 4-10-2, Nihonbashi-honcho, Chuo-ku, Tokyo 103-0023, Japan

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