

SDS No. 04-1-003-(1)-E, G-BOND

**SAFETY DATA SHEET**

Number: 15-1-007-(2)-E

Date prepared: 2003 Jul 29

Date Revised: 2015 Nov 19

**1. Chemical Product and Company Identification**

Product code: -

Product name: G-BOND

Manufacturer / Supplier: GC Corporation,  
76-1 Hasunuma-Cho, Itabashi-Ku, Tokyo, Japan  
Postal code 174-8585, Phone 81-3-3965-1388

**2. Hazards Identification**

**GHS label elements, including precautionary statements  
Pictograms or hazard symbols (Referring to Acetone)**

**Precautionary statements:**

**[Prevention]** Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against ignition by the static discharge and the spark.

Do not breathe dust/fume/gas/mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/eye protection/face protection.

**[Response]** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash hands thoroughly after handling.

IF exposed or concerned: Get medical advice/attention.

**[Storage]** Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**[Disposal]** Dispose of contents/container through a waste management company authorized by the local government.

**3. Composition / Information on Ingredients**

4-Methacryloxyethyl trimellitate anhydride
Phosphoric acid ester monomer
Urethanedimethacrylate
Dimethacrylate
Purified water
Acetone
Silica fine powder
Photo Initiator

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**4. First Aid Measures** (referring to Acetone)

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.

**Skin contact:** Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get medical advice/attention.

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention.

**Ingestion:** Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

**Most important symptoms/effects, acute and delayed:**

Sore throat, Cough, Confusion, Headache, Dizziness, Drowsiness, Unconsciousness, Nausea, Vomiting, Dry skin, Redness, Pain, Blurred Vision, Cornea damage

**Protection of first-aiders:** A rescuer should wear personal protective equipment, such as rubber gloves and airtight goggles.

**5. Fire Fighting Measures** (referring to Acetone)

**Suitable extinguishing media:** Dry chemical, foam, water in large amounts, carbon dioxide.

**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: Keep containers cool by spraying with water. Eliminate all ignition sources 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 Acetone)**Personal precautions, protective equipment and emergency procedures:**

Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to noninvolved 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 dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill.

Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

**Prevention of secondary hazards:**

Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

**7. Handling and Storage** (referring to Acetone)**Precautions for safe handling**

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

Prevent generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling.

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

**Advice on safe handling:** Avoid all contact!

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

**Storage conditions:** Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store locked up. Store away from incompatible materials such as oxidizing agents.

**Packaging material:** Comply with laws.

**8. Exposure Controls, Personal Protection** (referring to Acetone)

**Engineering controls:** Install a closed system or local exhaust. Also install safety shower and eye bath.

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**Control parameters:** 500 ppm**Exposure limits:****ACGIH TLV(TWA):** 500 ppm**ACGIH TLV(STEL):** 750 ppm**OSHA PEL(TWA):** 1000 ppm**JSOH OELs(TWA):** 200 ppm**Personal protective equipment****Respiratory protection:** Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.**Hand protection:** Impervious gloves.**Eye protection:** Safety goggles. A face-shield, if the situation requires.**Skin and body protection:** Impervious protective clothing. Protective boots, if the situation requires.

## 9. Physical and Chemical Properties

**Physical state:** Liquid**Form:** Clear**Colour:** Light yellowish**Odour:** Acetone odor**Odour threshold:** 13 ppm (as Acetone)**pH:** No data available**Melting point/freezing point:**-95°C (as Acetone)**Boiling point/range:** 56°C (as Acetone)**Flash point:** -20°C (as Acetone)**Flammability or explosive****limits:****Lower:** 2.2%**Upper:** 13%**Relative density:** No data

## 10. Stability and Reactivity (referring to Acetone)

**Chemical stability:** Stable under proper conditions.**Possibility of hazardous reactions:** No special reactivity has been reported.**Conditions to avoid:** Spark, Open flame, Static discharge**Incompatible materials:** Oxidizing agents, Strong bases, Reducing agents**Hazardous decomposition products:** Carbon monoxide, Carbon dioxide

## 11. Toxicological Information (referring to Acetone)

**Acute Toxicity:** orl-rat LD50:5800 mg/kg

skn-rbt LDLo:20 mL/kg

ihl-rat LC50:50100 mg/m<sup>3</sup>/8H**Skin corrosion/irritation:** skn-rbt 500 mg/24H MLD**Serious eye damage/irritation:** eye-rbt 20 mg/24H MOD**Germ cell mutagenicity:** cyt-ham-fbr 40 g/L

sln-smc 47600 ppm

## 12. Ecological Information

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 13. Disposal Considerations

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to the local official regulations.

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**14. Transport Information****IMO Regulations (IMDG):**

Class: 3

UN Number: 1090

Packing Group: II

Marine Pollutant: No

Proper Shipping Name: Acetone solution

**ICAO and IATA Regulations:**

Class: 3

UN Number: 1090

Packing Group: II

Proper Shipping Name: Acetone solution

**15. Regulatory Information****Chemical Inventory Status –****Acetone (CAS 67-64-1)**

TSCA EC Japan Australia

Yes Yes Yes Yes

**Federal, State & International Regulations –****Acetone (CAS 67-64-1)**

-SARA 302- -SARA 313-

RQ TPQ List Chemical Catg.

No No Yes No

**16. Other Information**

No specific information available.

The information herein is given in good faith, but no warranty expressed or implied, is made.