

MATERIAL SAFETY DATA SHEET

Number: D-0001 (E)
Date prepared: July 7, 2004
Date Revised: May 30, 2006

1. Chemical Product and Company Identification

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

Australian supplier: Henry Shein Halas Dental Co., Ltd., Sydney – Head Office 44 O'Dea Ave, Waterloo, NSW 2017 Emergency Phone (02) 9697-6288 Fax (02) 9697 6250

2. Composition / Information on Ingredients

(% chemical components by WT)	
Acetone (CAS 67-64-1)	40%
Distilled water (CAS 7732-18-5)	20%
4-Methacryloxyethyltrimellitate anhydride (CAS 70293-55-9)	15%
Urethane dimethacrylate (CAS 72869-86-4)	10-20%
Triethyleneglycol dimethacrylate (CAS 109-16-0)	10%

3. Hazards Identification

Emergency Overview: Yellowish liquid. Highly flammable liquid and vapor. Harmful if swallowed or inhaled. Causes irritation to skin, eyes and respiratory tract.

Potential Health Effects

Eye: Irritating eyes with redness and pain.
Skin: Irritating skin. Symptoms include redness, itching and pain. May cause allergic skin reactions
Inhalation: Inhalation of vapors irritates the respiratory tract.
Ingestion: May cause diarrhea, nausea and vomiting.

4. First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes. If symptoms persist, get medical attention.
Skin: Immediately wash with water and soap and rinse thoroughly. Get medical attention, if irritation develops.
Ingestion: If symptoms persist, get medical attention.
Inhalation: Supply fresh air and get medical attention if symptoms persist.

5. Fire Fighting Measures

Flammable Properties

Flash Point: -10 °C
Flammable Limits % Vol: LEL 2.5, UEL 13
Auto Ignition Temperature: Product is not auto-igniting

G-BOND / G-BOND Unit dose

Hazardous Combustion Products: Formation of toxic gases is possible in case of fire.**Extinguishing Media:** Chemical foam, carbon dioxide, and dry chemical**Fire Fighting Instructions:** Wear self-contained breathing apparatus in case of fire.

6. Accidental Release Measures

Eliminate source of ignition. Wear protective equipment and keep unprotected persons away.

Do not allow product to reach sewage system or any watercourse. Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into watercourse or sewage system.

Measures for environmental protection: Do not flush to sewer.**Measures for cleaning/collections:** Absorb with liquid-binding material. (sand, diatomite, acid binders, universal binders, sawdust), and place in a chemical waste container. Ensure adequate ventilation.

7. Handling and Storage

Handling:

Keep Ignition sources away – Do not smoke.

Ensure good ventilation/exhaustion at workplace.

Storage:

Store in cool, dry conditions in well sealed receptacles. Keep receptacle tightly sealed.

8. Exposure Controls, Personal Protection

Respiratory Protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.**Skin Protection:** Protective gloves.**Eye Protection:** Tightly sealed goggles.

Exposure Guideline(s):

Acetone (67-64-1)

OSHA (PEL): 1000 ppm (TWA)

ACGIH (TLV): 500 ppm (TWA), 1750ppm(STEL) A4 – not classifiable as a human carcinogen

Engineering Controls: Ensure adequate and local ventilation.

9. Physical and Chemical Properties

Appearance: Light yellowish liquid.**Odor:** Slight odor like ester**Boiling Point:** 55 °C**Vapor Pressure:** Not determined.**Vapor Density:** Not determined.**Solubility in Water:** Miscible.**Specific Gravity:** No data**Melting Point:** No data**pH:** No data**Volatility:** Vapor Pressure at 20°C 185mm/Hg**Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

10. Stability and Reactivity

Stability: Stable**Incompatibility:** None**Hazardous Decomposition Products:** No dangerous decomposition products known.**Hazardous Polymerization:** No dangerous polymerization known.

11. Toxicological Information

Acute Toxicity:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Additional toxicological information: Harmful according to the general EU Classification Guidelines.

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.

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.

