

MATERIAL SAFETY DATA SHEET

Number: D-0006-L(E)
Date prepared: July 17, 2001
Date revised: June 2, 2006

1. Chemical Product and Company Identification

Product code: -
Product name: Luxon - Liquid
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)
Methyl methacrylate (CAS 80-62-6) 91 %
Ethylenglycol dimethacrylate (CAS 97-90-5) < 9
(See section 8 for exposure guidelines)

3. Hazards Identification

Emergency Overview:
Clear colorless liquid with sweetish/sharp odor.
Flammable liquid and vapor. Causes eye, skin and respiratory tract irritation.
May cause allergic skin reaction.

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. Symptoms from overexposure can include coughing, chest pain, headache, drowsiness, nausea, anorexia, irritability and narcosis.

Ingestion: May cause diarrhea, nausea and vomiting. Ingestion may be linked to liver and kidney damage.

4. First Aid Measures

Eye: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention.

Skin: Flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention, if symptoms occur.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Inhalation: Supply fresh air and be sure to get medical attention. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

5. Fire Fighting Measures

Flammable Properties

Flash Point: 10°C

Flammable Limits:

Lower flammable limit: 1.7%

Upper flammable limit: 8.2%

Auto Ignition temperature: 435°C

Extinguishing Media: Chemical foam, carbon dioxide, and dry chemical

Fire Fighting Instructions:

As in any fire, wear self-contained breathing apparatus in pressure-demand, and full protective gear. During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion.

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.

Measure for cleaning/collecting: Absorb with inert materials (e.g. vermiculite, sand, earth, etc) and place in a chemical waste container. Provide 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):

	ACGIH	NIOSH	OSHA – Final PELs
Methyl methacrylate (CAS 80-62-6)	50 ppm TWA, 100 ppm STEL	100 ppm TWA, 410 mg/m ³ TWA 1000 ppm IDLH	100 ppm TWA, 410 mg/m ³ TWA

Engineering Controls: Facilities storing utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

9. Physical and Chemical Properties

Appearance: Clear colorless liquid

Odor: Sweetish, sharp odor

Boiling Point: 100°C

Vapor Pressure (mm Hg): 40@25.5°C

Vapor Density (Air=1): 3.6

Solubility in Water: 1.5g in 100gm water

Specific Gravity: 0.9

Luxon - Liquid

Freezing/Melting Point: -48°C**pH:** Not available**% Volatiles by Volume @21°C:** 100

10. Stability and Reactivity

Stability: The product (inhibited) is stable at room temperature. Vapors are uninhibited and may form polymers in vents, causing stoppage.

Incompatibility: Polymerization catalysts (peroxides, persulfates), light, heat, nitric acid and strong oxidizers.

Hazardous Decomposition Products: Carbon dioxide and carbon monoxide.

Hazardous Polymerization: May occur.

11. Toxicological Information

Methyl methacrylate (CAS# 80-62-6)

LD50/LC50:

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Draize test, rabbit, eye: 150 mg

Oral rat LD50: 7872 mg/kg

Inhalation rat LC50: 78000 mg/m³/4H

Carcinogenicity: Not listed by ACGIH, IARC, NTP or CA Prop 65

IARC Category: Group 3

Additional toxicological information:

Investigated as a tumorigen, mutagen, reproductive effector.

12. Ecological Information

Generally notes:

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

13. Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste

Disposal must be made according to state and local hazardous waste regulations.

14. Transport Information

IMO Regulations:

Proper shipping name: Methyl methacrylate monomer, stabilized solution

Hazardous class: 3, Flammable Liquid

UN Number: UN1247

Packing group: II

ICAO and IATA Regulations:

Proper shipping name: Methyl methacrylate monomer, stabilized solution

Hazardous class: 3, Flammable Liquid

UN Number: UN1247

Packing group: II

15. Regulatory Information

Chemical Inventory Status –

Methyl methacrylate (CAS 80-62-6)

TSCA	EU	Japan	Australia	Korea
Yes	Yes	Yes	Yes	Yes

Australian Hazchem Code: 3[Y]E

16. Other Information

No specific notes available.

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