

Page 1/12

Printing date 03/13/2018

Version CA-EN-Rev 1

Reviewed on 01/09/2018

- **1** Identification
- · Product identifier
- · Trade name: GC RELINE (Bonding Agent)
- · Application of the substance / the mixture Auxiliary for manufacture of dental prothesis
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier: GC America Inc. 3737 W. 127th Street Alsip, IL 60803 USA

sds@gcamerica.com

· Information department: Regulatory Affairs

· Emergency telephone number: During normal opening times (Mon.-Fri. 8:00 AM-5:00 PM CST): +1 (708) 597-0900 Transportation (CHEMTREC®) Emergency Telephone No. +1 (800) 424-9300

2 Hazard identification

· Classification of the substance or mixture		
Flammable Liquids - Category 2	H225	Highly flammable liquid and vapour.
Acute Toxicity (Oral) - Category 4	H302	Harmful if swallowed.
Acute Toxicity (Dermal) – Category 4	H312	Harmful in contact with skin.
Acute Toxicity (Inhalation) - Category 4	H332	Harmful if inhaled.
Skin Irritation - Category 2	H315	Causes skin irritation.
Eye Irritation - Category 2A	H319	Causes serious eye irritation.
Skin Sensitizer - Category 1	H317	May cause an allergic skin reaction.
Specific Target Organ Toxicity - Single Exposure - Category 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
Specific Target Organ Toxicity - Repeated Exposure - Category 1	H372	Causes damage to organs through prolonged or repeated exposure.
Aspiration Hazard - Category 1	H304	May be fatal if swallowed and enters airways.

· Additional information:

The information provided is in regards to the toxicity and hazard rating(s) of the individual component(s) in the formulation. The associated risk(s) depends on the route(s) of exposure. The hazard rating system is based entirely on the existence of the risk(s) and does not take into account the likelihood of reduced risk(s) through proper usage and handling.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 2)

- CA -

Printing date 03/13/2018

Version CA-EN-Rev 1

Reviewed on 01/09/2018

Trade name: GC RELINE (Bonding Agent)



3 Composition/Information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 3)

Printing date 03/13/2018

Version CA-EN-Rev 1

Reviewed on 01/09/2018

Trade name: GC RELINE (Bonding Agent)

		(Contd. of page 2)
 Dangerous col 	nponents:	
CAS: 80-62-6	methyl methacrylate (MMA)	40 - 70% w/w
CAS: 67-64-1	acetone	10 - 30% w/w
CAS: 868-77-9	2-hydroxyethyl methacrylate (HEMA)	5 - 10% w/w

Additional information:

If a substance is marked with **, then substance is a trade secret. This is allowed under OSHA's Hazard Communication Standard (HCS) as a trade secret and under GHS as Confidential Business Information (CBI).

4 First aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

If symptoms persist consult doctor.

· After inhalation:

Supply fresh air or oxygen; call for doctor. In case of unconsciousness place patient stably in side position for transportation. Do not use mouth to mouth or mouth to nose resuscitation.

• After skin contact: Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment. • After eye contact:

Protect unharmed eye. Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Do not induce vomiting; immediately call for medical help.

Rinse out mouth and then drink plenty of water.

- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed Allergic reactions

 Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water
- Special hazards arising from the substance or mixture In case of fire, the following can be released: Carbon monoxide and carbon dioxide
- · Advice for firefighters
- · Protective equipment:
- Mouth respiratory protective device. Wear self-contained respiratory protective device.

(Contd. on page 4)

CA -

Printing date 03/13/2018

Version CA-EN-Rev 1

Reviewed on 01/09/2018

Trade name: GC RELINE (Bonding Agent)

Additional information

(Contd. of page 3)

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Remove persons from danger area.

- Keep away from ignition sources
 Avoid contact with the eyes and skin.
 Wear protective clothing.
 Environmental precautions:
 Do not allow product to reach sewage system or any water course.
 Inform respective authorities in case of seepage into water course or sewage system.
 Do not allow to penetrate the ground/soil.
 In case of seepage into the ground inform responsible authorities.
 Methods and material for containment and cleaning up:
 Ensure adequate ventilation.
 Absorb liquid components with liquid-binding material.
 Dispose of the collected material according to regulations.
- See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

· Handling:

- Precautions for safe handling Observe instructions for use.
 Ensure good ventilation/exhaustion at the workplace.
 Do not inhale dust / smoke / mist.
 Prevent formation of aerosols.
 Avoid contact with the eyes and skin.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 Do not spray on a naked flame or any incandescent material.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- Store only in unopened original receptacles.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Observe instructions for use / storage. Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight. Store in a cool place.

(Contd. on page 5)

CA

(Contd. of page 4)

Safety Data Sheet according to HPR, Schedule 1

Printing date 03/13/2018

Version CA-EN-Rev 1

Reviewed on 01/09/2018

Trade name: GC RELINE (Bonding Agent)

· Specific end use(s) No further relevant information available.

8 Exposure controls/ Personal protection

· Additional information about design of technical systems: No further data; see item 7.

- Control parameters
- · Components with limit values that require monitoring at the workplace:

CAS: 67-64-1 acetone

- EL Short-term value: 500 ppm Long-term value: 250 ppm
- EV Short-term value: 750 ppm
 - Long-term value: 500 ppm

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

· Breathing equipment:



Suitable respiratory protective device recommended.

Protection of hands:



Protective gloves

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of guality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

Manufacturing sites: Wear safety glasses with side shields (or goggles). Distribution, Workplace, and Household Settings: No special protective equipment required

(Contd. on page 6)

Printing date 03/13/2018

Version CA-EN-Rev 1

Reviewed on 01/09/2018

Trade name: GC RELINE (Bonding Agent)

(Contd. of page 5)

9 Physical and chemical prope	erties
 Information on basic physical and General Information 	chemical properties
 Appearance: Form: Color: Odor: Odor threshold: 	Liquid According to product specification Methacrylic Not determined.
· pH-value:	Not determined.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 100 ℃
· Flash point:	-10 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	Undetermined.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Heating may cause an explosion. Product is not explosive. However, formation of explosive air. vapor mixtures are possible.
 Explosion limits: Lower: Upper: 	2.1 Vol % 13 Vol %
· Vapor pressure:	Not determined.
 Density at 20 ℃: Relative density Vapor density Evaporation rate 	0.95 g/cm ³ Not determined. Not determined. Not determined.
 Solubility in / Miscibility with Water: 	Insoluble.
· Partition coefficient (n-octanol/wat	ter): Not determined.
 Viscosity: Dynamic at 20 ℃: Kinematic: 	0.6 mPas Not determined.
 Solvent content: Organic solvents: Other information 	26.9 % No further relevant information available.

10 Stability and reactivity

Reactivity Danger of polymerization.
 Chemical stability Stable at ambient temperature.

(Contd. on page 7)

CA

Printing date 03/13/2018

Version CA-EN-Rev 1

Reviewed on 01/09/2018

Trade name: GC RELINE (Bonding Agent)

Thermal decomposition (conditions to be evolded)	(Contd. of page
Thermal decomposition / conditions to be avoided:	
No decomposition if used according to specifications. Possibility of hazardous reactions	
Spontaneous polymerization can be caused in unstabilized product e.g. by	v ambient heat
Danger of receptacles bursting because of high vapor pressure if heated.	
Exothermic polymerization.	
Conditions to avoid	
Keep away from heat, hot surfaces, sparks, open flames and other ignitio	n sources. No smokina.
Incompatible materials:	5
Reacts with peroxides and other radical forming substances.	
Reacts with amines.	
Reacts with heavy metals.	
Hazardous decomposition products: No dangerous decomposition pro	ducts known.
Toxicological information	
Information on toxicological effects	
Acute toxicity:	
LD/LC50 values that are relevant for classification: No further relevant	t information available.
Primary irritant effect:	
on the skin: Irritant to skin and mucous membranes.	
an the environt hubble to all all and	
on the eye: Irritating effect.	
on the eye: Irritating effect. Sensitization: Sensitization possible through skin contact.	
Sensitization: Sensitization possible through skin contact. Additional toxicological information:	
Sensitization: Sensitization possible through skin contact.Additional toxicological information:The product shows the following dangers according to internally appr	oved calculation methods
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Sensitization: Sensitization possible through skin contact. Additional toxicological information: The product shows the following dangers according to internally appr preparations: Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) methyl methacrylate (MMA) butylated hydroxytoluene (BHT) NTP (National Toxicology Program) None of the ingredients is listed. Carcinogenic categories' legend: IARC Group 1: The agent is carcinogenic to humans. IARC Group 2A: The agent is probably carcinogenic to humans. IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.	
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Sensitization: Sensitization possible through skin contact. Additional toxicological information: The product shows the following dangers according to internally appr preparations: Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) methyl methacrylate (MMA) butylated hydroxytoluene (BHT) NTP (National Toxicology Program) None of the ingredients is listed. Carcinogenic categories' legend: IARC Group 1: The agent is carcinogenic to humans. IARC Group 2A: The agent is probably carcinogenic to humans. IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans. IARC Group 4: The agent is probably not carcinogenic to humans. NTP K: Known to be human carcinogen. NTP R: Reasonably anticipated to be human carcinogen. Repeated dose toxicity. No further relevant information available.	mans.
Sensitization: Sensitization possible through skin contact. Additional toxicological information: The product shows the following dangers according to internally appr preparations: Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) methyl methacrylate (MMA) butylated hydroxytoluene (BHT) NTP (National Toxicology Program) None of the ingredients is listed. Carcinogenic categories' legend: IARC Group 1: The agent is carcinogenic to humans. IARC Group 2A: The agent is probably carcinogenic to humans. IARC Group 2B: The agent is not classifiable as to its carcinogenicity to humans. IARC Group 4: The agent is probably not carcinogenic to humans. NTP K: Known to be human carcinogen. NTP R: Reasonably anticipated to be human carcinogen.	mans.

(Contd. on page 8)

Printing date 03/13/2018

Version CA-EN-Rev 1

Reviewed on 01/09/2018

Trade name: GC RELINE (Bonding Agent)

(Contd. of page 7)

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- General notes:

Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Dispose of contents / container in accordance with local / regional / national / international regulations.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

UN-Number DOT, TDG, IMDG, IATA	UN1993
· UN proper shipping name	
DOT	Flammable liquids, n.o.s. (Methyl methacrylate monome stabilized, Acetone)
·TDG	1993 Flammable liquids, n.o.s. (Methyl methacryla monomer, stabilized, Acetone), special provision 640D
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (METHY METHACRYLATE MONOMER, STABILIZED ACETONE)
· Transport hazard class(es)	
· DOT	
LAMMALE COD	
· Class	3 Flammable liquids

Printing date 03/13/2018

Version CA-EN-Rev 1

Reviewed on 01/09/2018

Trade name: GC RELINE (Bonding Agent)

	(Contd. of pag
Label TDG (Transport dangerous goods):	3
Class Label	3 (F1) Flammable liquids 3
· IMDG, IATA	
Class	3 Flammable liquids
	3
 Packing group DOT, TDG, IMDG, IATA 	Ι
Environmental hazards: Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler): EMS Number:	33 F-E,S-E
Stowage Category	B
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	t II of Not applicable.
Transport/Additional information:	
TDG	Code: F2
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
IMDG	
 Limited quantities (LQ) Excepted quantities (EQ) 	1L Code: E2
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUIDS, N.O.S., SPECIA PROVISION 640D (METHYL METHACRYLAT MONOMER, STABILIZED, ACETONE), 3, II

(Contd. on page 10)

Printing date 03/13/2018

Version CA-EN-Rev 1

Reviewed on 01/09/2018

Trade name: GC RELINE (Bonding Agent)

(Contd. of page 9)

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture · SARA (Superfund Amendments and Reauthorization Act)
- · Section 355 (extremely hazardous substances):
- None of the ingredients is listed.
- · Section 313 (Specific toxic chemical listings):
- methyl methacrylate (MMA)

TSCA (Toxic Substances Control Act):

acetone

- 2-hydroxyethyl methacrylate (HEMA)
- · Canadian substance listings:
- · Canadian Domestic Substances List (DSL)
- methyl methacrylate (MMA)

acetone

- 2-hydroxyethyl methacrylate (HEMA)
- butylated hydroxytoluene (BHT)
- · Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

Canadian Ingredient Disclosure list (limit 1%)

All ingredients are listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling:

methyl methacrylate (MMA) acetone

2-hydroxyethyl methacrylate (HEMA)

Hazard statements

Highly flammable liquid and vapour. Harmful if swallowed, in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. · Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe dust/fume/gas/mist/vapours/spray.

Printing date 03/13/2018

Version CA-EN-Rev 1

Reviewed on 01/09/2018

Trade name: GC RELINE (Bonding Agent)

(Contd. of page 10) Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse mouth. Take off contaminated clothing and wash it before reuse. Specific measures (see on this label). Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. • Chemical safety assessment: A Chemical Safety Assessment has not been carried out.
16 Other information
 Department issuing SDS: Regulatory Affairs
Contact:
Regulatory Affairs
Telephone No. +1 (708) 597-0900
sds@gcamerica.com
· Date of preparation / last revision 03/13/2018 / -
Abbreviations and acronyms:
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
HCS: Hazard Communication Standard (USA) MSDS: Material Safety Data Sheet
SDS: Safety Data Sheet
ECHA: European Chemicals Agency
OSHA: Occupational Safety and Health Administration (USA)
LEL: Lower Explosive Limit UEL: Upper Explosive Limit
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative Sources
Manufacturers' MSDSs/SDSs
• OSHA (https://www.osha.gov/dts/chemicalsampling/toc/chmcas.html)
• TOXNET (http://toxnet.nlm.nih.gov/)
• ECHA (http://echa.europa.eu/)
• EnviChem (www.echemportal.org)
· Notes:
CAS Registry Number is a Registered Trademark of the American Chemical Society.
CHEMTREC® is a registered service mark of the American Chemistry Council, Inc.
** Data compared to the previous version altered. This version replaces all previous versions.
- Disoloimor:

· Disclaimer:

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⁽Contd. on page 12)

Printing date 03/13/2018

Version CA-EN-Rev 1

Reviewed on 01/09/2018

Trade name: GC RELINE (Bonding Agent)

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