

Printing date 06/26/2017

Version US-EN-Rev 1

Reviewed on 06/26/2017

- · Product identifier
- · Trade name: GC RELINE II Remover for Resin

 Relevant identified uses of the substance or mixture and uses advised against Dental material

The product is intended for professional use.

To avoid risks for humans and environment obtain instructions.

- · Application of the substance / the mixture Auxiliary for dental technology
- · 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(s) identification

Classification of the substance or mixture Flam. Liq. 2 H225 Highly flammable liquid and vapor. Skin Irrit. 2 H315 Causes skin irritation.

Skin Irrit. 2H315Causes skin Irritation.Eye Irrit. 2AH319Causes serious eye irritation.Skin Sens. 1H317May cause an allergic skin reaction.STOT SE 3H335-H336May cause respiratory irritation. May cause drowsiness or dizziness.

• 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). • Hazard pictograms



· Signal word Danger

• **Hazard-determining components of labeling:** methyl methacrylate (MMA)

Printing date 06/26/2017

Version US-EN-Rev 1

Reviewed on 06/26/2017

Trade name: GC RELINE II Remover for Resin

othyl agotata	(Contd. of page 1)
ethyl acetate • Hazard state	
	able liquid and vapor.
Causes skin	• •
	bus eye irritation.
	n allergic skin reaction.
	espiratory irritation. May cause drowsiness or dizziness.
	ry statements
	om heat/sparks/open flames/hot surfaces. No smoking.
	tive gloves/protective clothing/eye protection/face protection.
	hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	nse cautiously with water for several minutes. Remove contact lenses, if present and easy
to do. Contin	
Store locked	up.
Dispose of co	ontents/container in accordance with local/regional/national/international regulations.
Classificatio	on system:
· NFPA rating	is (scale 0 - 4)
	Health = 1 Fire = 3
	Reactivity = 0
	Reactivity – 0
HMIS-rating	s (scale 0 - 4)
HEALTH 1	Health = 1
FIRE 3	
	Reactivity = 0
REACTIVITY 0	Reactivity - 0
Other hazar	ds
	BT and vPvB assessment
• PBT: Not ap	plicable.
vPvB: Not a	
	•

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

[·] Dangerous components:		
CAS: 141-78-6	ethyl acetate	50-70%
CAS: 80-62-6	methyl methacrylate (MMA)	25-50%

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.

If symptoms persist consult doctor.

(Contd. on page 3)

US

Printing date 06/26/2017

Version US-EN-Rev 1

Reviewed on 06/26/2017

Trade name: GC RELINE II Remover for Resin

	(Contd. of page 2)
· After inhalation:	(**************************************
Supply fresh air; consult doctor in case of complaints.	
In case of unconsciousness place patient stably in side position for transportation.	
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:	
Rinse out mouth and then drink plenty of water.	
If symptoms persist consult doctor.	
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 Fire-fighting 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 Formation of toxic gases is possible during heating or in case of fire.	
· Advice for firefighters	
• Protective equipment: Wear self-contained respiratory protective device.	
· Additional information	
Dispose of fire debris and contaminated fire fighting water in accordance with official reg	julations.
6 Accidental release measures	
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. Do not allow to penetrate the ground/soil.	
· 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.	
Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	
· Protective Action Criteria for Chemicals	
PAC-1:	
	1 200 nnm
CAS: 141-78-6 ethyl acetate	1,200 ppm
	(Contd. on page 4)

Printing date 06/26/2017

Version US-EN-Rev 1

Reviewed on 06/26/2017

Trade name: GC RELINE II Remover for Resin

CAS: 80-62-6	methyl methacrylate (MMA)	(Contd. of page 3) 17 ppm
· PAC-2:		
CAS: 141-78-6	ethyl acetate	1,700 ppm
CAS: 80-62-6	methyl methacrylate (MMA)	120 ppm
· PAC-3:		
CAS: 141-78-6	ethyl acetate	10000** ppm
CAS: 80-62-6	methyl methacrylate (MMA)	570 ppm

7 Handling and storage

· Handling:

- Precautions for safe handling
 Observe instructions for use.
 Ensure good ventilation/exhaustion at the workplace.
 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.

· 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.
- 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: 141-78-6 ethyl acetate	
PEL Long-term value: 1400 mg/m ³ , 400 ppm	
REL Long-term value: 1400 mg/m ³ , 400 ppm	
TLV Long-term value: 1440 mg/m ³ , 400 ppm	
CAS: 80-62-6 methyl methacrylate (MMA)	
PEL Long-term value: 410 mg/m ³ , 100 ppm	
	(Contd. on page 5)
	US

Printing date 06/26/2017

· pH-value:

· Flash point:

· Change in condition

Melting point/Melting range:

Boiling point/Boiling range:

Version US-EN-Rev 1

Reviewed on 06/26/2017

Trade name: GC RELINE II Remover for Resin

	(Contd. of page 4)
REL Long-term value: 410 mg/m ³ , 10 TLV Short-term value: 410 mg/m ³ , 10	
Long-term value: 205 mg/m ³ , 50	
DSEN	
• Additional information: The lists that	t were valid during the creation were used as basis.
· Exposure controls	
Personal protective equipment:	
General protective and hygienic me	asures: handling chemicals should be followed.
Avoid contact with the eyes and skin.	nanaling chemicals should be followed.
Wash hands before breaks and at the	
Keep away from foodstuffs, beverages Immediately remove all soiled and cor	
· Breathing equipment:	lannated clothing.
Suitable respiratory protectiv	ve device recommended.
· Protection of hands:	
Protective gloves	
r Tolective gloves	
Material of gloves	
 Material of gloves The selection of the suitable gloves defined 	oes not only depend on the material, but also on further marks of
	er to manufacturer. As the product is a preparation of several
	ve material can not be calculated in advance and has therefore to
be checked prior to the application. • Penetration time of glove material	
	be found out by the manufacturer of the protective gloves and has
to be observed.	
• Eye protection: Safety glasses	
9 Physical and chemical proper	ties
· Information on basic physical and c	chemical properties
· General Information	
Appearance:	
Form: Color:	Liquid Clear
· Odor:	Fruit-like
Odor threshold:	Not determined.

Not determined.

Undetermined.

Undetermined.

-4 °C (25 °F)

Printing date 06/26/2017

Version US-EN-Rev 1

Reviewed on 06/26/2017

Trade name: GC RELINE II Remover for Resin

	(Contd. of page =
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	Undetermined.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air vapor mixtures are possible.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/wa	iter): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	70.0 %
VOC content:	70.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability Stable at ambient temperature.

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- LD/LC50 values that are relevant for classification: No further relevant information available.
- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.

(Contd. on page 7)

Printing date 06/26/2017

Version US-EN-Rev 1

Reviewed on 06/26/2017

Trade name: GC RELINE II Remover for Resin

Additional toxicological information: The product shows the following dangers according to internally approved calcul preparations: Irritant	ation methods fo
Carcinogenic categories	
IARC (International Agency for Research on Cancer)	
methyl methacrylate (MMA)	3
NTP (National Toxicology Program)	
None of the ingredients is listed.	
OSHA-Ca (Occupational Safety & Health Administration)	
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 possibly 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. 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. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) No further relevant information available. No further relevant information available.	

- · 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 1 (Self-assessment): slightly hazardous for water

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

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

-US

(Contd. on page 8)

Printing date 06/26/2017

Version US-EN-Rev 1

Reviewed on 06/26/2017

Trade name: GC RELINE II Remover for Resin

(Contd. of page 7)

13 Disposal considerations

· Waste treatment methods

· Recommendation:

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

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number		
· DOT, ADR, IMDG, IATA	UN1090	
· UN proper shipping name		
DOT	Acetone	
	1090 Acetone	
· IMDG, IATA	ACETONE	
· Transport hazard class(es)		
· DOT		
3		
· Class	3 Flammable liquids	
	3	
ADR	·····	
3		
· Class	3 (F1) Flammable liquids	
· Label	3	
· IMDG, IATA		
3		
	0 Elementela linuida	
[.] Class [.] Label	3 Flammable liquids 3	
	5	
· Packing group		
· DOT, ADR, IMDG, IATA		
· Environmental hazards:	Not applicable.	
· Special precautions for user	Warning: Flammable liquids	

Printing date 06/26/2017

Version US-EN-Rev 1

Reviewed on 06/26/2017

Trade name: GC RELINE II Remover for Resin

	(Contd. of page 8)
 Danger code (Kemler): EMS Number: Stowage Category 	33 F-E,S-D E
 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	Il of Not applicable.
· Transport/Additional information:	
 ADR 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 1090 ACETONE, 3, II

15 Regulatory information

 $^{\cdot}$ Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\cdot}$ 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):

All ingredients are listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

methyl methacrylate (MMA)

• TLV (Threshold Limit Value established by ACGIH)

methyl methacrylate (MMA)

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements

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

Hazard pictograms



· Signal word Danger

(Contd. on page 10)

E, NL

A4

⁻ US

Printing date 06/26/2017

Version US-EN-Rev 1

Reviewed on 06/26/2017

Trade name: GC RELINE II Remover for Resin

	(Contd. of page 9)
· Hazard-determining components of labeling:	
methyl methacrylate (MMA)	
ethyl acetate	
· Hazard statements	
Highly flammable liquid and vapor. Causes skin irritation.	
Causes skin inflation.	
May cause an allergic skin reaction.	
May cause respiratory irritation. May cause drowsiness or dizziness.	
Precautionary statements	
Keep away from heat/sparks/open flames/hot surfaces. No smoking.	
Wear protective gloves/protective clothing/eye protection/face protection.	kin with water/abower
If on skin (or hair): Take off immediately all contaminated clothing. Rinse s If in eyes: Rinse cautiously with water for several minutes. Remove conta	
to do. Continue rinsing.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/ir	
· Chemical safety assessment: A Chemical Safety Assessment has not b	een 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 06/26/2017 / -	
· 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) ADR: Accord européen sur le transport des marchandises dangereuses par Route (E	uropean Agreement concerning the
International Carriage of Dangerous Goods by Road)	alopean Agreement concerning the
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation IATA: International Air Transport Association	
ACGIH: American Conference of Governmental Industrial Hygienists	
CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
VOC: Volatile Organic Compounds (USA, EU)	
LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit REL: Recommended Exposure Limit	
Flam. Liq. 2: Flammable liquids – Category 2	
Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A	
Skin Sens. 1: Skin sensitisation – Category 1	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
	(Contd. on page 11)

(Contd. of page 10)

Safety Data Sheet acc. to OSHA HCS 29 CFR 1910.1200

Printing date 06/26/2017

Version US-EN-Rev 1

Reviewed on 06/26/2017

Trade name: GC RELINE II Remover for Resin

· 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.

· Disclaimer:

The information contained herein is believed to be true and accurate. However, all statements, recommendations or suggestions are made without any guarantee, representation or warranty, express or implied, on our part. Therefore, no warranty is made or to be implied that the information set out in this document is accurate or complete, and we accordingly exclude all liability in connection with the use of this information or the products referred to herein. All such risks are assumed by the purchaser/user. The information contained herein is also subject to change without notice. For the avoidance of doubt, however, nothing in this document excludes or limits our liability for death or personal injury caused by our negligence or for fraudulent misrepresentation.