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Safety Data Sheet in accordance with HSNO

Printing date 14.12.2023

Version number 4

Revision: 14.12.2023

1 Identification of the substance or mixture and of the supplier

- · Product identifier
- · Trade name: GC Modeling Liquid

• *Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.*

· Application of the substance / the mixture Auxillary for dental technology

• **Details of the supplier of the safety data sheet** Henry Schein Dental

243-249 Bush Road, Rosedale Auckland 0632, NEW ZEALAND

Free Phone: 0800 808 855

Further information obtainable from: Regulatory affairs
 Emergency telephone number: 0800 764 766 (National Poisons Centre)

2 Hazards identification

· Classification of the substance or mixture

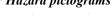
	Skin Irrit. 2		H315 Causes skin irritation.
	Eye Irrit. 2		H319 Causes serious eye irritation.
	Skin Sens. 1		H317 May cause an allergic skin reaction.
	STOT SE 3		H335 May cause respiratory irritation.
	Aquatic Chroni	ic 2	H411 Toxic to aquatic life with long lasting effects.
-			

· Label elements

• GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).

· Exemptions

The product, regulated as an invasive medical device by the Regulation (EC) 2017/745, is exempted from labelling requirements for substances and mixtures (according to the provision of the Art 1.5). • Hazard pictograms





· Signal word Warning

Hazard-determining components of labelling: Urethane Dimethacrylate (UDMA)
2-Hydroxy-1,3 dimethacryloxypropane
2-hydroxyethyl metacrylate
Hazard statements Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause respiratory irritation.

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Toxic to aquatic life with long lasting effects.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up.

- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/Information on ingredients

· Chemical characterisation: Mixtures

· Description:

Only substances required to be mentioned according to Annex II of regulation 1907/2006 are listed. Information on the other substances that may be present can be obtained upon request.

· Dangerous compone	ents:	
CAS: 72869-86-4	Urethane Dimethacrylate (UDMA)	25-<50%
EINECS: 276-957-5	Aquatic Chronic 2, H411; Skin Sens. 1, H317	
	2-Hydroxy-1,3 dimethacryloxypropane	25-<50%
EINECS: 217-388-4	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 868-77-9	2-hydroxyethyl metacrylate	10-<25%
EINECS: 212-782-2	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
Additional informat	ion. For the wording of the listed hazard physics refer to section 16	

• Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

• General information:

Immediately remove any clothing soiled by the product. If symptoms persist consult doctor.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Take affected persons into fresh air and keep quiet.

• After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment.

If skin irritation continues, consult a doctor.

• 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

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

5 Fire fighting measures

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.

- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire. No further relevant information available.
- Protective equipment: Wear self-contained respiratory protective device.
- Additional information

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. 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 metavial for containment and cleaning up.

• *Methods and material for containment and cleaning up: Absorb liquid components with liquid-binding material. Dispose of the material collected 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.

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- Avoid contact with the eyes and skin.
- · Information about fire and explosion protection: No special measures required.
- Storage:
- · Requirements to be met by storerooms and receptacles: Store only in unopened original receptacles.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed.
- Specific end use(s) No further relevant information available.

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8 Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see section 7.
- Ingredients with limit values that require monitoring at the workplace:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists valid during the making were used as basis.
- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals. 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
- · Respiratory protection: 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 quality 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:



Tightly sealed goggles

erties	
Liquid	
Light yellow	
Characteristic	
Not determined.	
Not determined.	
Undetermined.	
unge: >250 °C	
>98 °C	
Not applicable.	
Undetermined.	
Not determined.	
Product is not selfigniting.	
	Light yellow Characteristic Not determined. Not determined. Undetermined. unge: >250 °C >98 °C Not applicable. Undetermined. Not determined.

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· Explosive properties:	Product does not present an explosion hazard.	
· Explosion limits:		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Vapour pressure:	Not determined.	
· Density:	Not determined.	
Relative density	Not determined.	
· Vapour density	Not determined.	
• Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
· water:	Insoluble.	
• Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
· Kinematic:	Not determined.	
· Solvent content:		
· VOC (EC)	0.0 g/l	
• Other information	No further relevant information available.	

10 Stability and reactivity

• *Reactivity* No further relevant information available.

- 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 Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

72869-86-4 Urethane Dimethacrylate (UDMA)

Oral LD50 >5,000 mg/kg (rat female) (OECD 401)

· Skin corrosion/irritation Causes skin irritation.

- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure May cause respiratory irritation.

• STOT-repeated exposure Based on available data, the classification criteria are not met.

• Aspiration hazard Based on available data, the classification criteria are not met.

- \cdot Additional toxicological information:
- *Repeated dose toxicity No further relevant information available.*

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· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

No further relevant information available.

12 Ecological information

· Toxicity

• Aquatic toxicity:

72869-86-4 Urethane Dimethacrylate (UDMA)

EC50/48h (static) >1.2 mg/l (daphnia magna) (OECD 202)

- · Persistence and degradability No further relevant information available.
- · Behaviour 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 (German Regulation) (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

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

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

· UN-Number	
· NZS, IMDG, IATA	UN3082
· UN proper shipping name	
·NZŚ	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANC
	LIQUID, N.O.S. (Urethane Dimethacrylate (UDMA))
·IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANC
	LIQUID, N.O.S. (Urethane Dimethacrylate (UDMA
	Butylated hydroxytoluene), MARINE POLLUTANT
·IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANC
	LIQUID, N.O.S. (Urethane Dimethacrylate (UDMA))

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Transport hazard class(es)	
NZS	
Class	9 (M6) Miscellaneous dangerous substances and articles.
Label	9
IMDG, IATA	
Class Label	9 Miscellaneous dangerous substances and articles. 9
Packing group NZS, IMDG, IATA	III
Environmental hazards: Marine pollutant:	No Symbol (fish and tree)
Special marking (NZS): Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
Special precautions for user Hazard identification number (Kemler code): EMS Number:	Warning: Miscellaneous dangerous substances and article. 90 F-A,S-F
Stowage Category	A
Transport in bulk according to Annex II of Marp and the IBC Code	ol Not applicable.
Transport/Additional information:	
r NZS	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	(-)
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
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Trade name: GC Modeling Liquid

· UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (URETHANE DIMETHACRYLATE (UDMA)), 9, III

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

· New Zealand Inventory of Chemicals

All ingredients are listed.

· HSNO Approval numbers

None of the ingredients is listed.

• GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS). · Hazard pictograms



· Signal word Warning

· Hazard-determining components of labelling: Urethane Dimethacrylate (UDMA) 2-Hydroxy-1,3 dimethacryloxypropane 2-hydroxyethyl metacrylate · Hazard statements Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause respiratory irritation. Toxic to aquatic life with long lasting effects. · Precautionary statements Avoid breathing dust/fume/gas/mist/vapours/spray. Contaminated work clothing should not be allowed out of the workplace. *Wear protective gloves / eye protection / face protection.* IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Directive 2012/18/EU · Named dangerous substances - ANNEX I None of the ingredients is listed. · Seveso category E2 Hazardous to the Aquatic Environment \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t • Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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D.1	
	want phrases
	5 Causes skin irritation.
	7 May cause an allergic skin reaction.
	9 Causes serious eye irritation.
	5 May cause respiratory irritation.
H41	1 Toxic to aquatic life with long lasting effects.
Dep	artment issuing SDS: Regulatory affairs
Con	tact: msds@gc.dental
Abb	reviations and acronyms:
	Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the Internati
	iage of Dangerous Goods by Road)
	G: International Maritime Code for Dangerous Goods
	: International Air Transport Association
	CS: European Inventory of Existing Commercial Chemical Substances CS: European List of Notified Chemical Substances
	Chemical Abstracts Service (division of the American Chemical Society)
	: Volatile Organic Compounds (USA, EU)
LC50): Lethal concentration, 50 percent
): Lethal dose, 50 percent
	Persistent, Bioaccumulative and Toxic
	: very Persistent and very Bioaccumulative Irrit. 2: Skin corrosion/irritation – Category 2
	rrit. 2: Skin corrosion/irritation – Category 2 rrit. 2: Serious eye damage/eye irritation – Category 2
	Sens. 1: Skin sensitisation – Category 1
STO	F SE 3: Specific target organ toxicity (single exposure) – Category 3
	tic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Sou	rces
• EC	CHA (http://echa.europa.eu/)
	viChem (www.echemportal.org)
	ata compared to the previous version altered.
This	version replaces all previous versions.
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