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Safety Data Sheet in accordance with HSNO

Printing date 16.08.2024

Version number 6

Revision: 16.08.2024

1 Identification of the substance or mixture and of the supplier

· Product identifier

· Trade name: UNIFAST LC 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)

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2 Hazards identification

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Classification of the substance or mixture	
Flammable liquids Category 2	H225 Highly flammable liquid and vapour.
Skin irritation Category 2	H315 Causes skin irritation.
Skin sensitisation Category 1	H317 May cause an allergic skin reaction.
Specific target organ toxicity - single exposure Category	3H335 May cause respiratory irritation.

Hazardous to the aquatic environment chronic Category 3H412 Harmful to aquatic life with long lasting effects.

· Label elements

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• *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 Danger

Hazard-determining components of labelling: Methyl methacrylate Urethane Dimethacrylate (UDMA)
Hazard statements Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction.

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May cause respiratory irritation.

Harmful to aquatic life with long lasting effects.

· Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. 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: 80-62-6 FINECS: 201-297-1	Methyl methacrylate Flammable liquids Category 2, H225; Skin irritation Category 2, H315; Skin	50-<75%
	sensitisation Category 1, H317; Specific target organ toxicity - single exposure Category 3, H335	
CAS: 72869-86-4	Urethane Dimethacrylate (UDMA)	10-<25%
EINECS: 276-957-5	<i>Hazardous to the aquatic environment chronic Category 2, H411; Skin sensitisation Sub-category 1B, H317</i>	
CAS: 2440-22-4	2-(2H-benzotriazol-2-yl)-p-cresol	0.5-<1%
EINECS: 219-470-5	Acute inhalation toxicity Category 3, H331; Skin sensitisation Category 1, H317	
· Additional information	ion: 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.

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:

Rinse opened eye for several minutes under running water.

If symptoms persist consult doctor.

• After swallowing:

Rinse out mouth and then drink plenty of water.

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[•] After inhalation:

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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

- 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. 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.
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 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: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Do not spray onto a naked flame or any incandescent material.
- Storage:
- *Requirements to be met by storerooms and receptacles: Store in a cool location.*

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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. 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 facilities: No further data; see section 7.

· Ingredients with limit valu	ies that require monitoring at the workplace:
80-62-6 Methyl methacryl	late
WES (New Zealand)	Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm skin, dsen
IOELV (European Union)	Short-term value: 100 ppm

Long-term value: 50 ppm

· DNELs

80-62-6 Methyl methacrylate

Dermal DNEL dermal 13.67 mg/kg bw/day (man) (worker, l. te., syst.)

Inhalative DNEL inhalation 208 mg/m3 (air) (worker, l. te., syst.)

- · 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.

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Eye protection:		(Contd. of page
Tightly sealed goggles		
Tignity seared goggles		
Physical and chemical propertie	26	
V		
General Information		
Appearance:	I :: 1	
Form:	Liquid	
Colour:	Clear	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range		
Flash point:	10 °C	
Flammability (solid, gas):	Highly flammable.	
Auto-ignition temperature:	Undetermined.	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	2.1 Vol %	
Upper:	12.5 Vol %	
Vapour pressure:	Not determined.	
Density at 20 °C:	$0.9 \ g/cm^3$	
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.

 \cdot Conditions to avoid No further relevant information available.

· Incompatible materials: No further relevant information available.

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Trade name: UNIFAST LC Liquid

· 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:

80-62-6 Methyl methacrylate

Oral LD50 6,000 mg/kg (rabbit)

Dermal LD50 >5,000 mg/kg (rab)

Inhalative LC50/4 h 29.8 mg/l (rat (f+m))

72869-86-4 Urethane Dimethacrylate (UDMA)

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

2440-22-4 2-(2H-benzotriazol-2-yl)-p-cresol

Oral LD50 10,000 mg/kg (rat (f+m))

Inhalative |LC50/4 h| 0.59 mg/l (rat (f+m))

· Skin corrosion/irritation Causes skin irritation.

• Serious eye damage/irritation Based on available data, the classification criteria are not met.

· 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.

• Additional toxicological information:

• *Repeated dose toxicity No further relevant information available.*

· 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:

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.

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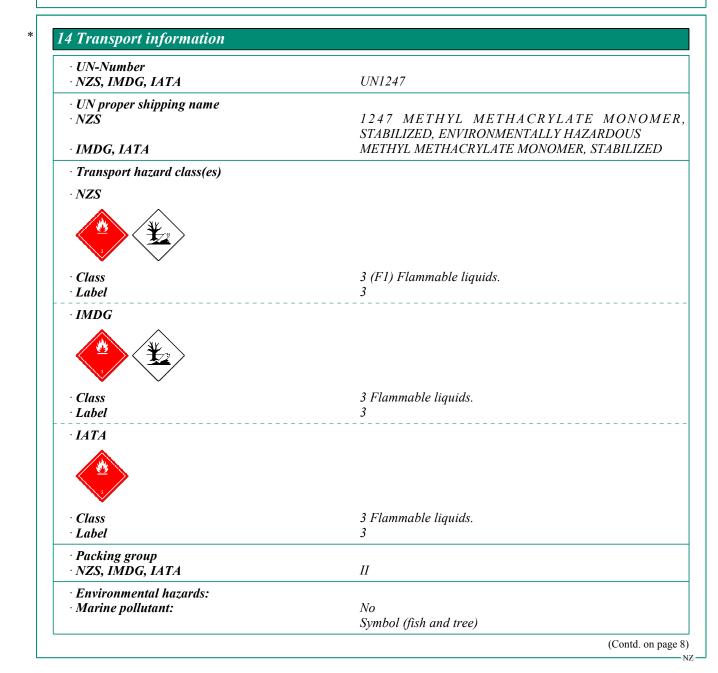
• Other adverse effects No further relevant information available.

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.



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Special marking (NZS):	Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	33
EMS Number:	F-E,S-D
Stowage Category	С
Stowage Code	SW1 Protected from sources of heat.
	SW2 Clear of living quarters.
Transport in bulk according to Annex II of Mar	pol
and the IBC Code	Not applicable.
Transport/Additional information:	
NZS	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1247 METHYL METHACRYLATE MONOMER
0	STABILIZED, 3, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

*

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

· New Zealan	d Inventory of Chemicals	
80-62-6	Methyl methacrylate	
72869-86-4	Urethane Dimethacrylate (UDMA)	
	ethyl 4-dimethylaminobenzoate	
2440-22-4	2-(2H-benzotriazol-2-yl)-p-cresol	
	Camphorquinone	
128-37-0	Butylated hydroxytoluene	
· HSNO Appi	oval numbers	
80-62-6 Me	thyl methacrylate	HSR001195
· GHS label e	lements The product is classified and labelled according to the Globally Harmonised Sy	vstem (GHS).

· Hazard pictograms



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Methyl methac	
	ethacrylate (UDMA)
· Hazard statem	
	ble liquid and vapour.
Causes skin in	allergic skin reaction.
	piratory irritation.
	iatic life with long lasting effects.
· Precautionary	
	m heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	work clothing should not be allowed out of the workplace.
	e gloves/protective clothing/eye protection/face protection/hearing protection.
	or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
Store locked u	
	tents/container in accordance with local/regional/national/international regulations.
· Directive 2012	718/EU rous substances - ANNEX I None of the ingredients is listed.
0	
· Seveso catego	y to the Aquatic Environment
	BLE LIQUIDS
	antity (tonnes) for the application of lower-tier requirements 200 t
	antity (tonnes) for the application of tower-tier requirements 500 t
	ty assessment: A Chemical Safety Assessment has not been carried out.
• Chemical safe	iv ussessment. A Unemilui suleiv Assessment nus not been lui neu out.
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(Contd. of page 9) Skin sensitisation Category 1: Skin sensitisation – Category 1 Skin sensitisation Sub-category 1B: Skin sensitisation – Category 1B Specific target organ toxicity - single exposure Category 3: Specific target organ toxicity (single exposure) - Category 3 Hazardous to the aquatic environment chronic Category 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Hazardous to the aquatic environment chronic Category 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 Sources • ECHA (http://echa.europa.eu/) • EnviChem (www.echemportal.org) • * 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.