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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 21.06.2023

Version number 4 (replaces version 3)

Revision: 21.06.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: UNIFAST Trad Liquid · 1.2 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 • 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: GC EUROPE N.V. Interleuvenlaan 33 B-3001 Leuven Tel. +32/(0)16/74.10.00 Fax + 32/(0)16/40.26.84msds@gc.dental · Further information obtainable from: Regulatory affairs · 1.4 Emergency telephone number: National poison center for United Kingdom of Great Britain and Northern Ireland: Belfast: +44 28 90 63 2032 Birmingham: +44 121 507 4123 Edinburgh: +44 131 242 1383 Newcastle Upon Tyne: +44 191 2606182/+44 191 2606180 Penarth: +44 292 071 55 54 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 Flam. Liq. 2 H225 Highly flammable liquid and vapour.

# Skin Irrit. 2H315 Causes skin irritation.Skin Sens. 1H317 May cause an allergic skin reaction.STOT SE 3H335 May cause respiratory irritation.Aquatic Chronic 3H412 Harmful to aquatic life with long lasting effects.

#### · 2.2 Label elements

#### · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

#### · 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

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Hazard-dete	ermining components of labelling:
Methyl meth	
	ptriazol-2-yl)-p-cresol
	col dimethacrylate
Hazard state	
	y flammable liquid and vapour.
	s skin irritation.
H317 May c	ause an allergic skin reaction.
•	ause respiratory irritation.
	ful to aquatic life with long lasting effects.
	ry statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361	+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water
	[or shower].
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
2.3 Other ho	8
<b>Results</b> of P	BT and vPvB assessment
<b>PRT</b> · Not an	

• **PBT:** Not applicable.

· vPvB: Not applicable.

# **SECTION 3:** Composition/information on ingredients

### · 3.2 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 components:		0.0 1000/
CAS: 80-62-6	Methyl methacrylate	90-<100%
EINECS: 201-297-1	Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT	
Index number: 607-035-00-6	SE 3, H335	
	substance with a Community workplace exposure limit	
CAS: 99-97-8	N,N-dimethyl-p-toluidine	1-<2.5%
EINECS: 202-805-4	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331;	
Index number: 612-056-00-9	STOT RE 2, H373; Aquatic Chronic 3, H412	
CAS: 2440-22-4	2-(2H-benzotriazol-2-yl)-p-cresol	1-<2.5%
EINECS: 219-470-5	Acute Tox. 3, H331; Aquatic Chronic 1, H410; Skin Sens. 1, H317	
CAS: 97-90-5	Ethyleneglycol dimethacrylate	0.2-<0.5%
EINECS: 202-617-2	Skin Sens. 1, H317; STOT SE 3, H335	
Index number: 607-114-00-5	Specific concentration limit: STOT SE 3; H335: $C \ge 10 \%$	
CAS: 123-31-9	hydroquinone	≥0.025-<0.1%
EINECS: 204-617-8	Muta. 2, H341; Carc. 2, H351; Eye Dam. 1, H318; Aquatic Acute	
Index number: 604-005-00-4		
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• Additional information: For the wording of the listed hazard phrases refer to section 16.

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## **SECTION 4:** First aid measures

• 4.1 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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Do not use mouth to mouth or mouth to nose resuscitation.

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 eve 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.

If symptoms persist consult doctor.

· 4.2 Most important symptoms and effects, both acute and delayed Allergic reactions

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

#### No juriner relevant information available.

# **SECTION 5:** Firefighting measures

- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water
- 5.2 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.

- 5.3 Advice for firefighters
- · Protective equipment:
- Mouth respiratory protective device.

Wear self-contained respiratory protective device.

• Additional information

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

# **SECTION 6:** Accidental release measures

· 6.1 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.

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<sup>5.1</sup> Extinguishing media

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• 6.2 Environmental	nrocautions
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Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil.

• 6.3 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.

• **6.4 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.

#### **SECTION 7: Handling and storage**

• 7.1 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.

· 7.2 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:
- Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight. Store in a cool place.

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

#### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

80-62-6 Methyl methacrylate

WEL Short-term value: 416 mg/m<sup>3</sup>, 100 ppm Long-term value: 208 mg/m<sup>3</sup>, 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.)

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#### · PNECs

#### 99-97-8 N,N-dimethyl-p-toluidine

PNEC Aqua 152.59 µg/L (freshwater)

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

- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as 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.
- · Hand protection



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/face protection



Tightly sealed goggles

9.1 Information on basic physical and che	mical properties	
General Information		
Physical state	Fluid	
Colour:	Yellow	
Odour:	Characteristic	
Odour threshold:	Not determined.	
Melting point/freezing point:	-48 °C	
Boiling point or initial boiling point and b	oiling range 100 °C	
Flammability	Highly flammable.	
Lower and upper explosion limit		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	10 °C	
Auto-ignition temperature:	Undetermined.	
Decomposition temperature:	Not determined.	

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· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	0.6 mPas
· Solubility	
water at 20 °C:	0.15 g/l
	Insoluble.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
• Density and/or relative density	
Density at 20 °C:	$0.9 \ g/cm^3$
· Relative density	Not determined.
· Vapour density	Not determined.
r upour aensay	Not acterminea.
9.2 Other information	
Appearance:	
Form:	Liquid
Important information on protection of health a environment, and on safety.	und
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	I I I I I I I I I I I I I I I I I I I
· VOC (EC)	$0.0 \ g/l$
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard classes	
- Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Highly flammable liquid and vapour.
· Flammable solids	Void
Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable ga	ses
in contact with water	Void
• Oxidising liquids	Void
• Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

# SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions No dangerous reactions known.

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• 10.4 Conditions to avoid No further relevant information available.

• 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50	values rele	vant for classification:	
80-62-6 M	ethyl meth	acrylate	
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))	
99-97-8 N,	N-dimethy	vl-p-toluidine	
Oral	LD50	1,650 mg/kg (rat (f+m))	
Dermal	LD50	>2,000 mg/kg (rabbit)	
Inhalative	LC50/4 h	1.4 mg/l (rat (f+m))	
2440-22-4	2-(2H-ben	izotriazol-2-yl)-p-cresol	
Oral	LD50	10,000 mg/kg (rat (f+m))	
Inhalative	LC50/4 h	0.59 mg/l (rat (f+m))	
97-90-5 Et	thylenegly	col dimethacrylate	
Oral	LD50	8,700 mg/kg (rat (f+m))	
Dermal	LD50	>2,000 mg/kg (rat (f+m))	
	~~~~	tion Causes skin irritation. ensitisation May cause an allergic skin reaction.	
		re May cause respiratory irritation.	
		ical information:	
		ty No further relevant information available.	
		ogenity, mutagenicity and toxicity for reproduction) Iformation available.	
		other hazards	
·Endocrine			
		hydroxytoluene	List II

# SECTION 12: Ecological information

12.1 Toxicit	v
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· Aquatic toxicity:

99-97-8 N,N-dimethyl-p-toluidine

LC50/96h 46 mg/L (fish)

• 12.2 Persistence and degradability No further relevant information available.

· 12.3 Bioaccumulative potential No further relevant information available.

· 12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

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· vPvB: Not applicable.

- 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects
- Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (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.

- **SECTION 13: Disposal considerations**
- · 13.1 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.

SECTION 14: Transport information	
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1247
· 14.2 UN proper shipping name · ADR	1247 METHYL METHACRYLATE MONOMER Stabilized
· IMDG, IATA	METHYL METHACRYLATE MONOMER, STABILIZED
· 14.3 Transport hazard class(es)	
· ADR	
· Class · Label	3 (F1) Flammable liquids. 3
· IMDG, IATA	
· Class	3 Flammable liquids.
·Label	3
· 14.4 Packing group · ADR, IMDG, IATA	II
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> </ul>	Warning: Flammable liquids. 33
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EMS Number: Stowage Category Stowage Code	F-E,S-D C SW1 Protected from sources of heat. SW2 Clear of living quarters.
14.7 Maritime transport in bulk according instruments	to IMO Not applicable.
Transport/Additional information:	Temperature control is not required, in regards to Specia Provision 386. Product uses chemical stabilization.
ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 D/E
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 1247 METHYL METHACRYLATE MONOMER STABILIZED, 3, II

# **SECTION 15: Regulatory information**

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

• Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

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

#### **SECTION 16: Other information**

#### · Relevant phrases

H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H351 Suspected of causing cancer.

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H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
· Classification according to Regulation (EC) No 1272/2008 Calculation method
• Department issuing SDS: Regulatory affairs
· Contact: msds@gc.dental
· Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International
Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association CUS: Clobally Harmonical System of Classification and Labelling of Chemicals
GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances
ELINES: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2 Acute Ten: 2: Acute tonicity – Category 2
Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Muta. 2: Germ cell mutagenicity – Category 2
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 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.
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