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Safety Data Sheet in accordance with HSNO

Printing date 30.07.2024

Version number 5

Revision: 30.07.2024

1 Identification of the substance or mixture and of the supplier

- · Product identifier
- · Trade name: UNIFAST III 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	
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.
Carcinogenicity Category 1	H350 May cause cancer.
Specific target organ toxicity - single exposure Category .	3H335 May cause respiratory irritation.

Specific target organ toxicity - repeated exposure Category 2 H373 May cause damage to the blood system and the respiratory tract through prolonged or repeated exposure.

· 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 Danger

• Hazard-determining components of labelling: Methyl methacrylate N,N-dimethyl-p-toluidine Ethyleneglycol dimethacrylate

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Trade name: UNIFAST_III_Liquid

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· Hazard statements
Highly flammable liquid and vapour.
Causes skin irritation.
May cause an allergic skin reaction.
May cause cancer.
May cause respiratory irritation.
May cause damage to the blood system and the respiratory tract through prolonged or repeated exposure.
· 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.
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].
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
• Other hazards
· Results of PBT and vPvB assessment
• <i>PBT:</i> 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.

CAS: 80-62-6	Methyl methacrylate	90-<100%
EINECS: 201-297-1	Flammable liquids Category 2, H225; Skin irritation Category 2, H315; Skin sensitisation Category 1, H317; Specific target organ toxicity - single exposure Category 3, H335	
CAS: 99-97-8	N,N-dimethyl-p-toluidine	2.5-<5%
EINECS: 202-805-4	Acute oral toxicity Category 3, H301; Carcinogenicity Category 1, H350; Specific target organ toxicity - repeated exposure Category 2, H373; Acute inhalation toxicity Category 4, H332; Flammable liquids Category 4, H227; Hazardous to the aquatic environment chronic Category 3, H412	
CAS: 97-90-5	Ethyleneglycol dimethacrylate	1-<2.5%
EINECS: 202-617-2	Skin sensitisation Category 1, H317; Specific target organ toxicity - single exposure Category 3, H335; Flammable liquids Category 4, H227	
CAS: 2440-22-4	2-(2H-benzotriazol-2-yl)-p-cresol	0.2-<0.5%
EINECS: 219-470-5	Acute inhalation toxicity Category 3, H331; Skin sensitisation Category 1, H317	
CAS: 128-37-0	Butylated hydroxytoluene	0.1-<0.2%
EINECS: 204-881-4	Hazardous to the aquatic environment acute Category 1, H400; Hazardous to the aquatic environment chronic Category 1, H410	

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

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4 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 eye contact:

Rinse opened eve 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.

· 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:

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.

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.

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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.
 Do not inhale dust / smoke / mist.
 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.*
- 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.

0		es that require monitoring at the workplace:
80-02-0 M	ethyl methacryla	te
WES (New Zealand)		Short-term value: 416 mg/m³, 100 ppm
		Long-term value: 208 mg/m³, 50 ppm
		skin, dsen
IOELV (Eı	ropean Union)	Short-term value: 100 ppm
, ,		Long-term value: 50 ppm
· DNELs		
80-62-6 M	ethyl methacryla	ite
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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Trade name: UNIFAST_III_Liquid

128-37-0 Butylated	hydroxytoluene
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Dermal DNEL dermal 0.5 mg/kg bw/day (man)

Inhalative DNEL inhalation 3.5 mg/m3 (man)

· 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.
- · 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

General Information		
Appearance:		
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 ra	nge: 100 °C	
Flash point:	10 °C	
Flammability (solid, gas):	Highly flammable.	
Auto-ignition temperature:	Undetermined.	

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· 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.

· 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.

· <i>LD/LC50</i> v	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	el-p-toluidine
Oral	LD50	140 mg/kg (ATE)
		1,650 mg/kg (rat (f+m))
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	1.4 mg/l (ATE)
		1.4 mg/l (rat (f+m))
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Oral	LD50	8,700 mg/kg (rat (f+m))
Dermal	LD50	>2,000 mg/kg (rat (f+m))
2440-22-4	2-(2H-ben	zotriazol-2-yl)-p-cresol
Oral	LD50	10,000 mg/kg (rat (f+m))
Inhalative	LC50/4 h	0.59 mg/l (rat (f+m))
128-37-01	Butylated h	ydroxytoluene
Oral	LD50	>6,000 mg/kg (rat (f+m)) (OECD 401)
Serious ey Respirator Germ cell Carcinoge	e damage// y or skin s mutagenic nicity May	tion Causes skin irritation. Fritation Based on available data, the classification criteria are not met. Ensitisation May cause an allergic skin reaction. Ity Based on available data, the classification criteria are not met. Cause cancer. Based on available data, the classification criteria are not met.

Toxicity

• Aquatic toxicity:

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

LC50/96h 46 mg/L (fish)

128-37-0 Butylated hydroxytoluene

EC50/48h (static) 0.48 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.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- Additional ecological information:
- · General notes:

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

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

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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	UN1247
UN proper shipping name NZS	1247 METHYL METHACRYLATE MONOME STABILIZED
IMDG, IATA	METHYL METHACRYLATE MONOMER, STABILIZED
Transport hazard class(es)	
NZS	
Class	3 (F1) Flammable liquids.
Label	3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
Packing group NZS, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	33
EMS Number:	F-E,S-D
Stowage Category	C
Stowage Code	SW1 Protected from sources of heat. SW2 Clear of living quarters.
Tugunant in bulk according to Anney H of Man	
Transport in bulk according to Annex II of Mar and the IBC Code	<i>Not applicable.</i>

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1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
2
D/E
1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
UN 1247 METHYL METHACRYLATE MONOMER Stabilized, 3, II

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 80-62-6 Methyl methacrylate

HSR001195

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



· Signal word Danger

Hazard-determining components of labelling: Methyl methacrylate
N.N-dimethyl-p-toluidine
Ethyleneglycol dimethacrylate
Hazard statements
Highly flammable liquid and vapour.
Causes skin irritation.
May cause an allergic skin reaction.
May cause cancer.
May cause cancer.
May cause damage to the blood system and the respiratory tract through prolonged or repeated exposure.
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.
Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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Specific treatment (see on this label).

IF exposed or concerned: Get medical advice/attention.

Dispose of contents/container in accordance with local/regio Directive 2012/18/EU	-
Named dangerous substances - ANNEX I None of the ingred	dients is listed.
Seveso category P5c FLAMMABLE LIQUIDS	• • • • • • • • • • • • • • • • • • • •
Qualifying quantity (tonnes) for the application of lower-tie	
Qualifying quantity (tonnes) for the application of upper-tie Chemical safety assessment: A Chemical Safety Assessment A	
Chemical sujely assessment. A Chemical Sujely Assessment	ius not been currieu out.
Other information	
Relevant phrases	
H225 Highly flammable liquid and vapour.	
H227 Combustible liquid.	
H301 Toxic if swallowed.	
H315 Causes skin irritation.	
H317 May cause an allergic skin reaction. H331 Toxic if inhaled.	
H332 Harmful if inhaled.	
H335 May cause respiratory irritation.	
H350 May cause cancer.	
H373 May cause damage to organs through prolonged or rep	peated 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.	
Department issuing SDS: Regulatory affairs	
Contact: msds@gc.dental	
Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereu Carriage of Dangerous Goods by Road)	ses par route (European Agreement Concerning the Internat
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association FINECS: Furgean Inventory of Existing Commercial Chemical Substance	e.
EINECS: European Inventory of Existing Commercial Chemical Substance. ELINCS: European List of Notified Chemical Substances	5
CAS: Chemical Abstracts Service (division of the American Chemical Socie	ty)
VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (REACH)	
PNEC: Predicted No-Effect Concentration (REACH)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Flammable liquids Category 2: Flammable liquids – Category 2	
Flammable liquids Category 4: Flammable liquids – Category 4 Acute oral toxicity Category 3: Acute toxicity – Category 3	
Acute inhalation toxicity Category 4: Acute toxicity – Category 4	
Skin irritation Category 2: Skin corrosion/irritation – Category 2	
Skin sensitisation Category 1: Skin sensitisation – Category 1 Carcinogenicity Category 1: Carcinogenicity – Category 1	
Specific target organ toxicity - single exposure Category 3: Specific target	
Specific target organ toxicity - repeated exposure Category 2: Specific targ	
Hazardous to the aquatic environment acute Category 1: Hazardous to the	aquatic environment - acute aquatic hazard – Category I (Contd. on pag
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Hazardous to the aquatic environment chronic Category 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 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.

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