SAFETY DATA SHEET VERTEX TRAYPLAST LIQUID

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE **COMPANY/UNDERTAKING**

: VERTEX TRAYPLAST LIQUID **Product name**

: VERTEX-DENTAL B.V. **Supplier**

P.O. Box 10 3700 AA Zeist The Netherlands

Tel.: +31 30 69 76 740 Telefax: +31 30 69 55 188

Emergency telephone

number

: + 31 30 69 76 740

2. COMPOSITION/INFORMATION ON INGREDIENTS

: Preparation Substance/preparation Information on hazardous ingredients *

micrimation on nazaradae ingreatente						
Chemical name	CAS No.	%	EC Number	Symbol	R-Phrases	
Methyl methacrylate	80-62-6	> 80	201-297-1	F, Xi	R11-36/37/38-43	
Ethyl methacrylate	97-63-2	<20	202-597-5	F, Xi	R11-36/37/38-43	
Accelerator	99-97-8	< 1	202-805-4	Т	R23/24/25-33-52/5-	

3

3. HAZARDS IDENTIFICATION

Physical/chemical hazards : Highly incendive.

: Irritating. May cause sensitization by skin contact. Human health hazards

: The data available do not support any environmental hazard. **Environmental hazards**

4. FIRST-AID MEASURES

Effects and symptoms

: Irritating to respiratory system. Exposure may result in depressed Inhalation

> respiration, coughing, nausea and sore throat. Prolonged or repeated exposure to large amounts may cause damage to lungs (lung oedema).

: Irritating to mouth, throat and oesophagus. Exposure may result in Ingestion

sore throat, nausea, retching and blisters. Prolonged or repeated exposure to large amounts may result in unconsciousness or coma. : Irritating to skin. Exposure may result in redness, swelling and pain.

Skin contact

Prolonged or repeated skin contact may result in burns and blisters. May cause sensitization by skin contact (sweating, fever, pain). In oversensitive people even exposure to very small amounts causes allergic

: Irritating to eyes. Exposure may result in impaired vision, tears, Eye contact

redness and pain.

First-aid measures

: Immediately remove victim to fresh air. Keep victim at rest in half upright Inhalation

> position. If breathing is difficult: mouth-to-mouth resuscitation. If not breathing: artificial respiration. Immediately get medical attention.

Version: 001.00.00 Date of issue: 10-11-2003 Page 1 of 6

^{*} Occupational Exposure Limit(s), if available, are listed in section 8

SAFETY DATA SHEET VERTEX TRAYPLAST LIQUID

: Never give anything by mouth to an unconscious person. Do not induce Ingestion

vomiting. Wash out mouth with water. Make victim drink water. Keep

victim at rest. Immediately get medical attention.

: Wash off with plenty of water for at least 15 minutes. Remove Skin contact

contaminated clothing. (Do not pull loose). Wash off with plenty of

water. Immediately get medical attention.

: Immediately wash out with plenty of water with the eyelid held wide open Eye contact

for at least 15 minutes. After initial flushing, remove any contact lenses

and continue flushing. Immediately get medical attention.

: Avoid exposure. Use appropriate protection (see section 8). Protection of first-aiders

5. **FIRE-FIGHTING MEASURES**

Extinguishing media

Suitable : Dry chemical, AFFF, foam, carbon dioxide. In extreme cases, if

aforementioned extinguishing agents are ineffective in fighting a large fire,

use a halon extinguisher.

Not suitable

Special fire-fighting

procedures

Unusual fire/explosion

hazards Hazardous thermal

(de)composition products **Protection of fire-fighters**

: Do not extinguish with water.

: Fight fires from a protected location. Dike fire control water for later

disposal. Cool exposed containers with water spray.

: Vapour is heavier than air and travels along the ground with the risk of

distant ignition.

: Burning may produce: carbon dioxide, carbon monoxide.

: Burning may produce: toxic and/or corrosive vapours/gases. Use breathing apparatus (self-contained breathing apparatus with full face

shield). Wear suitable protective clothing.

ACCIDENTAL RELEASE MEASURES 6.

: In the event of major spillage: Evacuate room. Contact safety officer Personal precautions

immediately. Wear suitable protective clothing, gloves and eye/face

protection.

: Prevent dispersion. Do not allow to enter sewage system. In the event of **Environmental precautions**

major spillage: Contact safety officer immediately.

: Incendive / Danger of explosion. Keep away from sources of ignition. Methods for cleaning up

Seal leak if possible without risk. Prevent dispersion. Clean up only under supervision of an expert. Collect spilled material in sealable containers. Absorb remainder in sand or other inert material. Collect in sealable

containers.

7. HANDLING AND STORAGE

Handling : When handling the product, allow for materials and conditions which

> should be avoided (see Chapter 10). Avoid exposure. Use appropriate protection (see section 8). Take precautionary measures against static discharges. Keep away from open flame, sparks or sources of ignition.

Explosion protected electrical equipment.

: Store in fireproof location. When storing the product, allow for materials Storage

and conditions which should be avoided (see Chapter 10). Ventilation

required along the floor. Keep container tightly closed.

Packaging materials

Suitable : Keep in sealable containers.

Page 2 of 6 Date of issue: 10-11-2003 Version: 001.00.00

SAFETY DATA SHEET VERTEX TRAYPLAST LIQUID

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures : In the event of use above flash point: Use in closed systems. Do not use

compressed air by filling, discharging or handling the product. Ventilation required along the floor. Ventilation required. Explosion protected electrical equipment. Explosion proof lighting. Earth connection against

static electricity. Spark-free tool. Do not heat.

Hygiene measures: When using do not eat, drink or smoke. Follow good housekeeping

practices.

Occupational Exposure

Limits

 Chemical name
 OEL (United Kingdom)

 Methyl methacrylate
 TWA: 100 mg/m³ (25 ppm)

Personal protective

equipment

Respiratory system: With sufficient ventilation, extraction or closed system, breathing

apparatus not necessary. In the event of possible exposure: gas/vapour

filter.

Skin and body: Wear suitable protective clothing.

Hands: Wear suitable gloves (butyl rubber gloves or neoprene gloves).

Eyes : With sufficient extraction or closed system: safety goggles. In the event of

possible exposure: combined eye and respiratory protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid.

Colour : Colourless.

Odour : Ester-like.

Boiling point : 100,3 - 119 °C

Melting point : -75 - -48 °C

Vapour pressure : 47 mbar (20°C)

Specific gravity (H₂O=1) : 0,94

Solubility in water : 15,9 g/l (20°C) pH : Not applicable.

Flash point : 10 °C
Autoignition temperature : 430 °C
Lower explosion limit : 2,1 volume %
Upper explosion limit : 12,5 volume %
Viscosity : 0,6 mPa.s

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions. When incorrectly used: Fire hazard,

polymerization. (Stable with: hydrochinon).

Conditions to avoid : Keep away from: open flame and sources of ignition. Do not heat.

Protect from (sun)light and heat.

Materials to avoid : Keep away from: oxidizing substances.

Hazardous reactions : Not available.

Hazardous decomposition

products

: None.

Date of issue: 10-11-2003 **Version:** 001.00.00 **Page** 3 **of** 6

SAFETY DATA SHEET VERTEX TRAYPLAST LIQUID

11. TOXICOLOGICAL INFORMATION

No toxicological information is available on the product, but some is available on the ingredients defined in section 2.

 $\begin{tabular}{lll} \hline \textbf{Chemical name} & : & \textbf{Methyl methacrylate} \\ \hline \textbf{Acute toxicity - Oral} & : & LD_{50} \ (rat): 7872 \ mg/kg \\ \hline \textbf{Acute toxicity - Dermal} & : & LD_{50} \ (rabbit): > 5000 \ mg/kg \\ \hline \textbf{Acute toxicity - Inhalation} & : & LC_{50} \ (rat, 4 \ hour): 78000 \ mg/m^3 \\ \hline \end{tabular}$

<u>Chemical name</u> : Accelerator

Acute toxicity - Oral : LD₅₀ (rat): 1769 mg/kg
Acute toxicity - Inhalation : LD₅₀ (mouse): 212 mg/kg

Skin irritation: Mildly irritating.Eye irritation: Mildly irritating.

12. ECOLOGICAL INFORMATION

No ecological information is known on the product but some is available on the ingredients defined in section 2.

<u>Chemical name</u>: Methyl methacrylate

Ecotoxicity: LC₅₀ (fish, 96 hour): 130 mg/l

 EC_{50} (Daphnia magna, 24 hour): 720 mg/l

<u>Chemical name</u> : Accelerator

Ecotoxicity: LC₅₀ (fish, 96 hour): 46 mg/l

13. DISPOSAL CONSIDERATIONS

Methods of disposal : Disposal according to the local legislation.

Waste of residues : Keep waste separate. Because of possible pollution, remove as industrial

waste or hazardous waste.

Contaminated packaging: Keep waste packaging separate. Because of possible pollution, remove

as industrial waste or hazardous waste.

14. TRANSPORT INFORMATION

International transport regulations
UN number: 1247

TREMCARD : 30G30

Land - Road/Railway

Proper shipping name : Methylmethacrylate, stabilized

ADR/RID Class : 3
ADR/RID Item number : 3b)
Packing group : II
Hazard Identification : 339

Number

Inland waterways

Proper shipping name : Methylmethacrylate, stabilized

ADNR Class : 3

Date of issue: 10-11-2003 **Version:** 001.00.00 **Page** 4 **of** 6

SAFETY DATA SHEET VERTEX TRAYPLAST LIQUID

Sea

Proper shipping name : Methylmethacrylate, stabilized

IMDG Class: 3.2IMDG Page number: 3259Packing group: IIMedical First Aid Guide: 330

(MFAG)

Emergency Schedules

: 3-07

(EmS)

<u>Air</u>

Proper shipping name : Methylmethacrylate, stabilized

UN/ID Number : 1247 IATA-DGR Class : 3

National transport regulations

United Kingdom : No additional national transport regulations are known to the supplier

15. REGULATORY INFORMATION

EU Regulations

EU Classification

(67/548/EEC-88/379/EEC)

Hazard symbol(s) : F, Xi



HIGHLY FLAMMABLE



IRRITANT

Risk phrases: R11: Highly flammable.

R36/37/38: Irritating to eyes, respiratory system and skin.

R43: May cause sensitization by skin contact. : S09: Keep container in a well-ventilated place.

S16: Keep away from sources of ignition - No smoking.

S24: Avoid contact with skin.

S29: Do not empty into drains.

S33: Take precautionary measures against static discharges.

S37: Wear suitable gloves.

S46: If swallowed, seek medical advice immediately and show this

container or label.

National regulations

Safety phrases

United Kingdom : No additional national regulations are known to the supplier

16. OTHER INFORMATION

The information contained in the Safety data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

Date of issue: 10-11-2003 **Version:** 001.00.00 **Page** 5 **of** 6

SAFETY DATA SHEET VERTEX TRAYPLAST LIQUID

HISTORY

 Date of printing
 : 28-01-1999

 Date previous issue
 : 27-01-1999

 Date of issue
 : 27-01-1999

 Version
 : 001.00.00

The version-number is made up of three parts; part 1 is a general information code, part 2 a country-specific code and part 3 a language-specific code (<u>Country</u>: Great Britain; <u>Language</u>: English)

Prepared by : HASKONING

P.O. Box 151 6500 AD Nijmegen Netherlands

Date of issue: 10-11-2003 **Version:** 001.00.00 **Page** 6 **of** 6