

Safety Data Sheet

according to 91/155/EEC

1. Product identification/preparation/company undertaking		
Trade name:	Vertex™ LC Gloss	
Manufacturer/supplier:	Vertex Dental BV P.O.Box 10, 3700 AA, Zeist The Netherlands	
Emergency information:	++31 30 6976749	
2. <u>Composition/Information of Ingredients</u>		
Chemical characterization:	Light cure varnish based on multifunctional methacrylates and methylmethacrylate	
Description:		
Hazardous components:		
<u>CAS-Nr.:</u>	<u>Name</u>	<u>R-classification</u>
80-62-6	Methyl methacrylate	R 11-36/37/38-43
3. <u>Hazards identification</u>		
Risk identification:	F Highly flammable	
Special risks for human beings and environment:	X _i Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact	
Classification:	Classification corresponds to actual EEC guidelines, additionally information by literature	
4. <u>First-aid measures</u>		
General information:	Medical advice is necessary, if symptoms occur, which are obviously caused by the product	
after inhalation	Fresh air	
after skin contact:	Wash with plenty of water and soap. Remove contaminated clothing.	
after eye contact:	Rinse with plenty of water with the eyelid held wide open and consult an eye specialist	
after swallowing:	Make victim drink plenty of water, induce vomiting. Seek medical advice immediately. Keep airways free.	
5. <u>Fire fighting measures</u>		
Extinguishing media:	CO ₂ , foam, powder	
Protective equipment:	Do not stay in dangerous zone without suitable chemical protection clothing and selfcontaining breathing apparatus	

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6. <u>Accidental release measures</u>				
Personal precautions:	Do not inhale vapours/aerosols. Avoid substance contact. Ensure supply of fresh air in enclosed rooms			
Environmental precautions:	Observe local bye laws. Do not allow to enter sewerage system; risk of explosion			
Methods for cleaning up:	Take up with liquid-absorbent material. Forward of disposal. Clean up affected area.			
Additional information:				
7. <u>Handling and storage</u>				
Handling:				
Handling procedures:	Environment of fresh air is recommended			
Recommendation for fire and explosion protection:	No smoking. Keep away from sources of ignition. Take measures to prevent electrostatic charging.			
storage:	Store tightly closed at a dry and cool place (between 15 °C and 25 °C (60-78 °F)), store away from food stuffs			
Requirements at storerooms and containers:	Store cool, dry and protect it against light			
Requirements for storage with other products:	Away from highly flammable substances			
Additional storage conditions:				
Storage classification (VCI):	3 A			
VBF-classification:	Group A, class I			
8. <u>Exposure controls/personal protection</u>				
Additional information for technical plants:				
Components with limits of values to be supervised at the workplace:				
CAS-No.	name	art	value	unit
80-62-6	Methyl methacrylate	MAC	10 or 40	PPM mg/m ³
additional information:				
Personal protective equipment:	Required, when vapours/aerosols are generated.			
General measures of protection and hygiene:	Avoid contact with eyes and skin, normal hygienic measures			
respiration:	Avoid respiration			
hands:	Wear gloves			
eyes:	Eye protection necessary			

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9. Physical and chemical properties			
Appearance			
Form:	Liquid		
Colour:	Slight yellow		
Odour:	Methacrylates		
	<u>Value</u>	<u>Unit</u>	<u>Method</u>
Information on change in the physical state			
Melting point/melting range:	N.d.		
Boiling point/boiling range:	100	°C	
Flash point:	10	°C	DIN 51755
Autoignation temperature:	430	°C	DIN 51794
Danger of explosion:	Lower limit of explosion	2.1 Vol%	Kühn-
	Upper limit of explosion	12.5 Vol%	Birett
Density (20°C; 68 °F):	1.06	g/cm ³	
Vapour pressure (20°C; 68 °F)	40	mbar	
Viscosity:	N.d.		
pH:	Not available		
Solubility in/miscibility with:	Soluble in most organic solvents		
Water:	16	g/l	
Content of solvents:	None		
Organic solvents:	-		
Water:	-		
Content of solids:	None		
10. Stability and reactivity			
	Unstable by heat, direct sunlight and radical starters		
Incompatibility with other substances:	Polymerization possible in presence of heat, light, radical starters as peroxides, reducing agents, etc. Do not use various plastics or rubber as working materials.		
Hazardous discomposition products:	None by proper use		
11. Toxicological information			
Acute toxicity:	LD ₅₀ (oral/rat):	7900 mg/kg	
	LD ₅₀ (inhalation/rat):	78000 mg/kg (4h)	
Primary irritation skin:	Irritations; risk of skin sensitization		
eye:	Irritations		
inhalation:	Irritations of the mucous membranes, coughing, and dyspnoea		
ingestion:	Irritations of the mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract. After absorption of toxic quantities: CNS disorders. Toxic effect on: liver, kidneys		
Sensitization of product:	Observed in some cases. Allergic reactions are possible		
additional toxicological information:	The product should be handled with the care usual when dealing with chemicals		

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12. <u>Ecological information</u>	
General information:	
Degrance	Not determined
Fish toxicity	Not determined
Classification of water endangerment:	1 (self estimation)
Additional information	Avoid penetration of groundwaters and canalisation
13. <u>Disposal consideration</u>	
Recommendation:	Use proper landfill disposal in accordance with local, state and federal regulations
Disposal key number:	55373 (other not halogenous solvents)
Uncleaned packaging:	Disposal in compliance with official regulatons. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-conta-minated packaging may be treated like household waste or recycled.
14. <u>Transport information</u>	
Land transport ADR/RID and GGVS/GGVE (Germany)	GGVS/GGVE class: 3 ADR/RID class: 3 Name of material contained in this product:
	1247 METHYLMETHACRYLAT, MONOMER, STABILIZED
Sea transport IMDG	IMDG class: 3.2 UN-No.: 1247 EmS: 3-07 MFAG: 330 Packaging group II Correct technical name METHYL METHACRYLATE, MONOMER, STABILIZED
Air transport ICAO-TI and IATA-DGR	ICAO/IATA class 3 UN/ID-No. 1247 Packaging group II Correct technical name METHYL METHACRYLATE, MONOMER, STABILIZED
	The transport regulations are cited according to international regulations and in the form applicable in The Nethetlands (GGVS/GGVE). Possible national deviations in other countries are not considered.
15. <u>Regulatory information</u>	
Classification according to EEC-guidelines:	F Highly flammable. X ₁ Irritant. R 11 Highly flammable. R 36/37/38 Irritating to eyes, respiratory system and skin R 43 May cause sensitization by skin contact. S 9 Keep container in well-ventilated place. S 16 Keep away from sources of ignition. Don't smoke. S 29 Do not empty into drains S 33 Prevent electrostatical charge.
National Prescriptions:	None
Classification according to VbF:	AI
16. <u>Other information:</u>	
	The above information is based on our present day knowledge and relates solely to the safety requirements of the product. The data do not signify any warranty with regards to products properties. However users of the product should satisfy themselves that the information given is sufficient and correct for their specific circumstances of use.
Preparation by:	GM March 2007