



MATERIAL SAFETY DATA SHEET

Product Identity:
RESIN PLUS LIGHT CURED PRIMER

SECTION I. Identification

REVISION: MAY 2006

Manufacturer

Dental Ventures of America Inc.
217 Lewis Court
Corona, CA. 92882

Emergency Telephone Number:

Infotrack (800) 535 - 5053
Product Information Number:
(951) 270 - 0606

SECTION II. Composition/Information on Ingredients

General Description: Adhering additive.
Dangerous Components:
CAS: 80-62-6 Methyl Methacrylate EINECS: 201-297-1 EU: 607 035 00 6

SECTION III. Hazardous Ingredients/Identity Information



Xi Irritant
F Highly flammable

Information concerning to particular hazards to man and environment:

R11 Highly flammable
R37/38 Irritating to respiratory system and skin.
R 43 May cause sensitivity by skin contact.

SECTION IV. First Aid Measures

General Information: Immediately remove any clothing soiled by the product.
After Inhalation: Take affected persons into fresh air and keep quiet. Seek medical treatment in case of complaints.
After Skin Contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
After Eye Contact: Rinse opened eye for several minutes under running water, then consult a doctor.
After Swallowing: Call a doctor immediately.

SECTION V. Fire-Fighting Measures

Suitable Extinguishing Agents: Carbon dioxide, fire-extinguishing powder, foam or water spray.
For safety reasons unsuitable extinguishing agents: Water with full jet
Protective Equipment: Wear self-contained respiratory protective device.
Wear fully protective suit.

SECTION VI. Accidental Release Measures

Person-Related Safety Precautions: Ensure adequate ventilation
Wear protective clothing
Keep away from ignition sources

Product: **RESIN PLUS LIGHT CURED PRIMER****SECTION VI.****Accidental Release Measures**

Measures of Environmental Protection:	Do not allow to enter sewers/surface or ground water.
Measures for Cleaning/Collecting:	Pick-up mechanically. When pumping out, please ensure grounding. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Dispose of the material collected according to regulations.

SECTION VII.**Handling and Storage**

Handling:	Keep receptacles tightly sealed. Ensure good ventilation/exhaustion at the workplace.
Fire and Explosion Protection:	Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. Use explosion-proof apparatus/fittings and spark-proof tools.
Storage: Requirements to be met by Storerooms and Receptacles:	Store only in the original receptacle. Do not store at temperatures over 30 C Only fill container up to 90%. Store in a cool location.
Further information about Storage Conditions:	Keep receptacle tightly sealed. Store in cool, dry conditions. Protect from exposure to light.
Storage Class:	Not determined

SECTION VIII.**Exposure Controls / Personal Protection**

Additional information about design of technical facilities:	No further data; see Section VII.
Ingredients with limit values that require monitoring at the workplace: 80-62-6 Methyl Methacrylate OES Short-term value: 416 mg/m ³ , 100 ppm Long-term value: 208 mg/m ³ , 50 ppm	
Additional Information:	The lists valid during the making were used as basis.
Personal Protective Equipment General Protective and Hygienic Measures:	Do not inhale gases/fumes/aerosols. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
Respiratory Protection:	Not necessary if room is well-ventilated. Use suitable respiratory protective device when high concentrations are present.
Short Term Filter Device:	Filter AX
Protection of Hands: Penetration Time of Glove Material:	Solvent resistant gloves. Butyl rubber, BR 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.
Body Protection:	Protective work clothing.

Product: **RESIN PLUS LIGHT CURED PRIMER****SECTION IX. Physical and Chemical Properties**

Form:	Fluid	Explosion Limits:	Lower: 2.1 Vol%
Color:	Colorless		Upper: 12.5 Vol%
Odor:	Ester-like	Vapor Pressure @ 20C:	40 mbar
Melting Point/Range:	-48 C	Density @ 20C:	0.94 g/cm ³
Boiling Point/Range:	100.3 C (1013 hPa)	Solubility with Water @ 20C:	15.9 g/l
Flash Point:	10 C (DIN 51755)	Viscosity/Dynamic at 20 C:	0.6 mPas (Brookfield)
Ignition Temperature:	430 C 9DIN 51794)		
Danger of Explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.		

SECTION X. Stability and Reactivity

Thermal Decomposition/ Conditions to be Avoided:	No decomposition if used according to specifications.
Materials to be Avoided:	In presence of radical formers (e.g. peroxides), deoxidizing substances, and/or heavy metal ions, polymerization with heat release is possible.
Dangerous Reactions:	Exothermic polymerization.
Dangerous Decomposition Products:	At temperatures above 250 C, depolymerization and the release of starting monomers can arise.

SECTION XI. Toxicological Information

Acute Toxicity:	
LD/LC50 Values Relevant for Classification:	80-62-6 Methyl Methacrylate Oral: LD50 >5,000 mg/kg (rat) Dermal: LD50 >5,000 mg/kg (rab)
Primary Irritant Effect:	
Skin:	Irritant to skin and mucous membranes.
Eye:	Irritating effect.
Sensitization:	Sensitization possible through skin contact.
Additional toxicological information:	This product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. Irritant.

SECTION XII. Ecological Information

Behavior in Environmental Systems:	
Components:	Methyl Methacrylate Biodegradability: 30.7%
Time:	28 d
Method:	OECD 301 C
Valuation:	Difficult to decompose
Ecotoxicological Effects:	
Acquatic Toxicity:	
Type of Test:	Effective Concentration Method Assessment
Toxicity to Fish:	LC-50 > 79mg/l OECD 203
(MMA)	NOEC: 40 mg/l ISO 7346
	Time: 96 h EEC84
	Species: Oncorhynchus mykiss
Toxicity to Micro-Organisms:	ECO: 100 mg/l Starting Inhibition of cell growth.
Species:	Pseudomonas putida

General Notes:

Water hazard Class I (German Regulation) (Assessment by list): Slightly hazardous for water. Do not allow product to reach ground water, water course or sewage system.

SECTION XIII.

Disposal Considerations

Product Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system. After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

European Waste Catalogue:

(07 01 04) other organic solvents, washing liquids and mother liquors.

Uncleaned Packaging:

Recommendation:

Disposal must be made according to official regulations.

SECTION XIV.

Transport Information

Land Transport ADR/RID (Cross-border)



ADR/RID Class:	3 (Fl) Flammable liquids	Danger Code (Kemler):	339
UN-Number:	1247	Packaging Group:	II
Hazard Label:	3		
Description of goods:	1247 METHYL METHACRYLATE MONOMER, STABILIZED		

Maritime Transport IMDG:



IMDG Class:	3	UN Number:	1247
Label:	3	Packaging Group:	II
EMS Number:	F-E, S-D		
Marine Pollutant:	No		
Proper Shipping Name:	METHYL METHACRYLATE MONOMER, STABILIZED		

Air Transport ICAO-TI and IATA-DGR:



ICAO/IATA Class:	3	UN/ID Number:	1247
Label:	3	Packaging Group:	II
Proper Shipping Name:	METHYL METHACRYLATE MONOMER, STABILIZED		

SECTION XV.

Regulations

Labelling According to EU Guidelines:

The product has been classified and marked in accordance with EU Directives/Ordinance on Hazardous Materials.

Code Letter and Hazard Designation of Product:

Xi Irritant/ F Highly flammable

Risk Phrases:

11 Highly flammable. 37/38 Irritating to respiratory system and skin. 43 May cause sensitization.

Safety Phrases:

9 Keep container in a well-ventilated place.
 16 Keep away from sources of ignition - no smoking.
 24 Avoid contact with skin.
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 37 Wear suitable gloves.
 60 This material and its' container must be disposed of as hazardous waste.

National Regulations:

Technical Instructions (air): Class Share in % NK 75-100
 Water Hazard Class: Water hazard class 2 (Self-assessment): Hazardous for water.

The data herein relates to the product named and is based upon information that Dental Ventures of America, Inc. believes to be reliable and accurate. No warranty expressed or implied is intended. Users of this product have the responsibility to determine the suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. This information is offered solely for your consideration and interpretation.