

Product Identity:

RESIN PLUS LIGHT CURING LIQUID**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:

Liquid based on methacryl acid ester, containing an activator.

Dangerous Components:

CAS: 80-62-6 Methyl Methacrylate
EINECS: 201-297-1

Xi



F: R 11-37/38-43

25-50%

Additional Information: For the wording of the listed risk phrases refer to Section XVI.

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.

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

SECTION IV.**First Aid Measures**

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. If symptoms persist, consult a doctor.
After Swallowing: Drink plenty of water and provide fresh air. 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.
Special Hazards Caused by the Substance,
Its Products of Combustion or Resulting Gases: Can form explosive gas-air mixtures. Danger of polymerization.

SECTION VI.**Accidental Release Measures**

Person-Related Safety Precautions: Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources.
Avoid eye and skin contact with the substance.

Product: **RESIN PLUS LIGHT CURING LIQUID****SECTION VI. Accidental Release Measures**

Measures of Environmental Protection:	Do not allow to enter sewers/surface or ground water.
Measures for Cleaning/Collecting:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to Section XIII. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.

SECTION VII. Handling and Storage

Handling:	Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
Fire and Explosion Protection:	Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
Storage: Requirements to be met by Storerooms and Receptacles:	Close container immediately after use and protect product from light incidence. Storage between 15 C and 30 C in a dry and well-aired place. Avoid heating the material to over 50 C and cooling it below 5 C.
Further information about Storage Conditions:	Store away from foodstuffs. Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
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/m³, 100 ppm

Long-term value: 208 mg/m³, 50 ppm

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

Personal Protective Equipment

General Protective and
Hygienic Measures:

Keep away from foodstuffs, beverages and food.
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.

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:

Body Protection:

Tightly sealed goggles.
Protective work clothing.

Product: **RESIN PLUS LIGHT CURING LIQUID****SECTION IX.****Physical and Chemical Properties**

General Information:

Form:	Fluid
Colour:	Clear
Odour:	Ester-like

Change in Conditions:

Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	101 C (214 F)

Flash Point: 10 C (50 F)

Ignition Temperature: 430 C (806 F)

Self-igniting: Product is not self-igniting.

Danger of Explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

Explosion Limits:

Lower:	2.1 Vol %
Upper:	12.5 Vol %

Vapour Pressure at 20°C: 47 hPa

Density at 20°C: Not determined.

Solubility in / Miscibility with

Water : Not soluble or difficult to mix

pH-value: Not determined

Viscosity: (Dynamic/Kinematic) Not determined

Solvent Content: (Organic solvents): 0.0 %

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 metals ions, polymerization with heat release is possible.

Dangerous reactions:

No dangerous reactions known.

Dangerous decomposition products:

No dangerous decomposition products known.

SECTION XI.**Toxicological Information**

Acute Toxicity:

LD/LD50 values relevant for classification:

Methyl Methacrylate	LD-50 Oral	> 5000 mg/kg rat (lit.)
	LD-50 Inhalative	7093 ppm/4 rat (lit.)
Aromatic Urethane Acrylate:	LD-50 Oral	2500 mg/kg rat (lit.)
	Dermal:	4000 mg/kg rab (lit.)

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.

Product: **RESIN PLUS LIGHT CURING LIQUID****SECTION XII. Ecological Information**


General Notes: Water hazard Class I (German Regulation) (Self-assessment): Hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION XIII. Disposal Considerations


Product Recommendation: 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):	3
	UN-Number:	1247	Packaging Group:	II
	Hazard Label:	3		
	Description of goods:	1247 METHYL METHACRYLATE MONOMER, STABILIZED, Mixture		

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, Mixture		

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, Mixture		

SECTION XV. Regulatory Information**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

Hazard-determining Components of Labelling: Methyl Methacrylate, Aromatisches Urethancrylat

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.
23 Do not breath gas/fumes/vapor/spray. (Appropriate wording to be specified by manufacturer.)
24 Avoid contact with skin.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37/39 Wear suitable gloves and eye/face protection.
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.