

MATERIAL SAFETY DATA SHEET

SECTION I - Product/ Company Identification

Product Trade Name: **PLASTIC CONDITIONER**
Part (Item) Number(s): 544-0100-001, 544-0101-001
Manufacturer Name: DENTAL TECHNOLOGIES, INC.
Address: 6901 N. HAMLIN AVENUE
City State Zip: LINCOLNWOOD, IL 60712 U.S.A.
Emergency Telephone Number: (800) 424-9300 / (703) 527-3887 (Chemtrec)
Information Telephone Number: (800) 835-0885 / (847) 677-5500
Date Revised: 12/14/2006 MSDS-062 Rev 001

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components:	Concentration	CAS NO.	Hazard Code	Risk code
Methyl methacrylate	60 - 80 %	[80-62-6]	F	R11, 20, 21, 22
Isobutyl methacrylate	20 - 50 %	[97-86-9]	Xi	R36, 37, 38
Alkyl Toluidine	0 - 10 %	[3077-12-1]		

SECTION III - Hazards Identification

Emergency overview: Flammable liquid and vapors. May cause central nervous system depression.
Routes of exposure:
Skin May cause allergic skin reaction, irritation
Inhalation May cause respiratory tract irritation.
Eyes May cause eye irritation
Ingestion Not an expected hazard in normal use. May be harmful if swallowed

SECTION IV - First Aid Measures

Skin: Wash off with soap and water. Remove contaminated clothing. If irritation persists consult a physician.
Ingestion: Drink large quantity of milk or water. Seek medical attention immediately. Only induce vomiting if directed by physician.
Eyes: Remove contact lenses. Flush with plenty of water. Seek medical attention by an ophthalmologist.
Inhalation: Remove to fresh air. If breathing is difficult give oxygen and seek immediately medical attention.

SECTION V - Fire-fighting Measures.

Suitable extinguishing Media: Chemical Foam, Carbon Dioxide, or Dry Chemical
Forbidden extinguish Media: Unknown
Special Fire/Exposure Hazards: Vapors may travel to ignition source and flash back.
Unusual fire and explosion hazards: Flammable liquid. Explosive mixtures with air may occur at room temperature. Heated containers can build up pressure and explode. Cool fire-exposed containers with water. Heat can initiate exothermic polymerization.
Special Protection Equipment: Wear NIOSH-approved self-contained breathing apparatus and full protective gear.

SECTION VI - Accidental release measures

Personal Precautions: See sections VII and VIII for proper handling and personal protection.
Remove the sources of ignition and ventilate area.
For large spills, evacuate area if needed.

Environmental Precautions: Do not dump in sewer the spilled material. Do not contaminate any lakes, streams, groundwater, soil.

Methods for Cleaning up Always use impervious gloves when cleaning up. Absorb spill with inert absorbent such as paper towels or vermiculite as absorbent. Dispose according to applicable regulations.

SECTION VII - Handling and Storage

Handling: Avoid unnecessary exposure.

Storage: Store at room temperature, preferably cool, dry place, out of sunlight or strong light.. Keep away from sources of ignition.

Containers: Keep in original containers supplied by manufacturer.

Incompatibilities: Peroxides, Amines, Oxidizing or Reducing Agents.

Other Precautions: Use by trained professionals only and according to directions. Avoid contact with eyes, skin and soft tissue.

SECTION VIII - Exposure Controls / Personal Protection.

Exposure Limits:	OSHA-PEL		ACGIH-TLV	
	TWA	STEL	TWA	STEL
Methyl methacrylate	100 ppm	NE	100 ppm	NE
Isobutyl methacrylate	NE	NE	NE	NE

General Protective Measures: Follow good chemical handling/laboratory practice. Avoid unnecessary exposure.

General ventilation Ventilation should be designed in accordance with good engineering practices.

Respiratory protection: Avoid prolonged breathing vapors of the uncured material

Hands Protection: Impervious Gloves

Eye Protection: Safety Glasses or Goggles.

Skin Protection: Protect all exposed skin from contact. Use lab coat over clothing.

Other Equipment: Eye wash should be available in areas where this product is handled

SECTION IX - Physical and Chemical Properties.

Appearance: Clear liquid

Odor Acrylic.

Vapor Pressure 21 mm. Hg

Boiling Point: 119 oC

Explosion Limits: 2.1 - 12.5 % for Me Methacrylate

Flash Point 50 oF for Me Methacrylate

Water solubility: Insoluble

Specific Gravity 0.92

Evaporation Rate: Faster than Butyl Acetate

SECTION X - Stability and Reactivity.

Stability: Stable in normal storage conditions
Conditions to avoid: Temperatures over 40 oC, sources of ignition.
Materials to avoid: Peroxides, Amines, Oxidizing and Reducing Agents
Hazardous Decomposition Products: Carbon Oxides
Hazardous Polymerization Products: Polymerization with release of heat may occur

SECTION XI - Toxicological Information.

Ingestion: May cause indigestion or may be fatal
Eye contact: May cause irritation, pain, eye burns or permanent eye damage.
Skin Contact: May cause irritation or rash for persons with preexistent skin sensitivity.
Inhalation: Inhalation may cause irritation of the respiratory system.
Prolonged exposure: N/A

	For Methyl methacrylate *	For isobutyl methacrylate *
Acute Oral Effects:	LD50 (rat) > 5,000 mg/kg;	LD50 (mouse) 11824mg/kg
Acute Dermal Effects:	LD50 (rabbit) > 5,000 mg/kg;	LD50 (rabbit) 20ml/kg
Acute Inhalation Effects	LC50 (rat) 29.8mg/l	LC50 (rat) 3600 ppm 6 hrs

SECTION XII - Ecological Information

There is no specific information on the product. Use according to good working practice.

SECTION XIII - Disposal Considerations.

Incinerate or dispose according to local regulations.

SECTION XIV - Transport Information.

Substances determining Hazard: Methyl Methacrylate

Hazard Class: Substance Identification #: UN1247

Packing Group: 3 Hazard Label: Flammable Liquid

ERG. No 129

SECTION XV - Regulatory Information

CLASSIFICATION IN ACCORDANCE WITH EEC DIRECTIVES.

Hazard Classification Symbol: Xi

Risk Statements R20/21/22/ Harmful by inhalation, skin contact or if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin
R41 Risk of serious damage to eyes
R42/43 May cause sensitization by inhalation or skin contact

Safety Statements S36 Wear suitable protective clothing

Ingredients Determining the label: Methacrylate Esters Monomers

SECTION XVI - Other Information

	NFPA Hazard	Ratings	HMIS Hazard	Ratings
Health	2		2	
Flammability	3		3	
Reactivity	2		2	
Specific Hazard / PPE			C	

NFPA - National Fire Protection Association
HMIS - Hazardous Materials Identification System
N/A - Not Applicable
N/E - Not Established

NFPA Hazard Ratings

4 = extreme
3 = high
2 = moderate
1 = slight
0 = insignificant
N = no rating

HMIS Hazard Ratings

4 = severe
3 = serious
2 = moderate
1 = slight
0 = minimal
N = no rating

CAUTION: PRODUCT FOR PROFESSIONAL USE ONLY.

The above information is based on presently available data and to our best knowledge for handling the product under normal conditions. Any use of this product in any way not indicated on this document or using it together with any other process/procedure will be exclusively under the user's responsibility.