

SECTION I

Chemical Name: Methylmethacrylate Monomer (MMA), inhibited
Product Name: All ProTech Professional Products Denture Base Monomers
 (Covers: 30 Minute Boil, 15 Minute Boil, Tray, Ortho, Pour, Acrylic Repair, Tooth, Long Working, and No Trial Packing Denture Base Acrylics)
Distributor: ProTech Professional Products, Inc.
Address: 2900 N.W. Commerce Park Dr., #10, Boynton Beach, FL 33428
For Information Call: 1-800-872-8898, outside US & Canada call 1-561-493-9818

SECTION II - HAZARDOUS INGREDIENTS OF MIXTURES

PRINCIPAL HAZARDOUS COMPONENT (S)	%	TLV (UNITS)
Methylmethacrylate		100 ppm
Polymerization Inhibitors		4-1000 ppm

SECTION III - PHYSICAL DATA

Boiling Point: Deg. F. / mm Hg: 214 / 760
Vapor Pressure: mm Hg 29 AT 20 Deg. C.
Vapor Density (AIR=1): 3.46
Solubility in Water: 1.6 grams/100 grams
Appearance and Odor:

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point, Tag Closed, Deg. F.: 51 (TCC) **Flammable Limit, Air Vol% Lower:** 1.8%
Autoignition Temperature, Deg. C.: Upper: 8.2%
Extinguisher Method: Foam, carbon dioxide, dry chemical, water fog (by trained personnel)
Special Fire Fighting Procedures: Full protective equipment, including self-contained breathing apparatus, is recommended. Cool containers of material exposed to heat with cold water spray. Fight fires from a safe distance or protected areas.
Unusual Fire and Explosion Hazards: Sealed containers exposed to elevated temperatures may rupture explosively due to polymerization. Vapors are heavier than air and may travel to ignition source.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): When levels exceed 100 ppm, wear self contained breathing apparatus.
Ventilation: Provide sufficient ventilation in volume and pattern to keep airborne levels below 100 ppm. Use explosion proof equipment.
Protective Gloves: Neoprene Gloves. **Eye Protection:** Splashproof Goggles.
Other protective clothing or equipment: Neoprene boots and coveralls.

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in Handling and Storing: Observe label precautions. Keep away from heat, direct sunlight, sparks and flame. Close container after each use. Ground containers when pouring. See E-53033. Regulations related to storage of flammable liquids should be followed.
Other Precautions: Permit air space to exist inside storage containers. Material stored for more than 3 months should have inhibitor level checked and maintained at the original level.
TRANSPORTATION: DOT Class: Flammable Liquid, UN1247

Threshold Limit Value (TLV) : For monomeric MMA : 100 ppm
Effects of Overexposure: May cause eye, nose, and throat irritation. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. Remove to fresh air. If having difficulty breathing, administer oxygen. If not breathing, administer artificial respiration. Call a physician. Under some circumstances, mutagenic changes have been observed with MMA. The meaning and significance of these results is not understood. At 1000 PPM, MMA is weakly embryotoxic with rats.
Emergency and First Aid Procedures:
Inhalation: Remove to fresh air.
Eyes: Vapor may cause irritation of the eyes, liquid may cause corneal injury. Immediately flush with plenty of water for at least 15 minutes; call a physician.
Skin: Repeated or prolonged contact may cause allergic skin rash, itching, swelling. Potential skin sensitizer. Wash with soap and water. If irritation occurs, contact a physician.
Ingestion: Induce vomiting and get prompt medical attention.

SECTION VI - REACTIVITY DATA

Stability: UNSTABLE: STABLE: X
Conditions to Avoid: Heat and ignition sources; storage under inert atmosphere; contamination.
Incompatibility (Materials to Avoid): Reducing and oxidizing agents. Material has strong solvent properties and can soften paint or rubber.
Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide, smoke.
Hazardous Polymerization: MAY OCCUR: X WILL NOT OCCUR:
Conditions to Avoid: Excessive heat; storage in absence of inhibitor; inadvertent addition of catalyst. See E-53033 for details on inhibitors and storage stability.

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Evacuate area. Remove sources of ignition. Prevent skin contact and breathing of vapor. Confine and remove with inert absorbent. Ventilate area.
Waste Disposal Method: EPA listed hazardous waste under RCRA (U-162). Do not allow material to contaminate ground water systems. Incinerate in a facility which complies with federal, state, and local requirements. Do not incinerate in closed containers. Aquatic toxicity: estimate of 96 hr. median threshold limit: 100-1000 ppm.

DEFINITIONS

These definitions are intended for use with the Material Safety Data Sheets supplied by ProTech Professional Products, Inc.

SECTION I - PRODUCT IDENTIFICATION

CHEMICAL NAME : General or generic identification.
PRODUCT CODE : The sales code for the product which should be used in all references to the product.

SECTION II - HAZARDOUS COMPONENTS

A hazardous ingredient is one which meets one or more of the following criteria :

- Listed in the annual registry of toxic effects of chemical substances, or is known to be toxic within the parameters of that registry. and/or
- Has an OSHA established, 8 hr. time-weighted average permissible exposure limit (PEL), or acceptable ceiling (C), or an American Conference of Governmental Industrial Hygienists (ACGIH) threshold limit value (TLV), and by nature of the product or its known use, it is likely to become airborne. and/or
- It contributes to one or more of the following hazards of the product :
 - Flashpoint below 93 deg. C (200), or subject to spontaneous heating or decomposition.
 - Causes skin burns. (DOT)
 - Strong oxidizing agent. (DOT)
 - Subject to hazardous polymerization.

Each ingredient meeting one or more of the above criteria is listed in section II if present at a level at least greater than one percent. Ingredients which are claimed to be carcinogens, teratogens, mutagens, or causative agents of other reproductive disorders are listed if known or believed to be present, provided that the data supporting such claims is considered valid.

Each hazardous ingredient is listed by chemical, generic or proprietary name. It's level in the product is expressed as 1% or less, 1-10%, 10-30%, 30-60% or greater than 60% or by other means.

SECTION III - PHYSICAL DATA

INITIAL BOILING POINT : If liquid at 20 Deg. C. and is given in Deg. C. at 760 mm of Hg.
VAPOR PRESSURE : If liquid at 20 Deg. C. or if sublimes.
SPECIFIC GRAVITY : If not known, it is indicated as <1, =1, or >1.
PERCENT VOLATILES : Percent of material with initial boiling point below 220 Deg. C.
EVAPORATION RATE : Indicated with reference to Butyl Acetate, unless stated.

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DEFINITIONS (CONTINUED)

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SECTION IV - PRODUCT IDENTIFICATION

FLASH POINT : Closed cup, TAG

LOWER EXPLOSION LIMIT : Indicated component with lowest value.

HAZARDOUS DECOMPOSITION PRODUCTS : Known hazardous products resulting from heating, burning, etc., or reactive materials which may arise from heating, burning, etc.

SPECIAL FIREFIGHTING PROCEDURES : Indicates equipment to protect firemen from toxic procedures of combustion or if water is not to be used.

UNUSUAL FIRE AND EXPLOSION HAZARDS : Hazards not covered by other sections of this report are shown here.

SECTION V - HEALTH HAZARD DATA

Recipients of this data sheet should consult the OSHA safety and health standards (29 CFR 1910) particularly sub-part G - occupational health and environmental control and sub-part I - personal protective equipment, for general guidance on control of potential occupational health hazards.

PERMISSIBLE EXPOSURE LEVEL : OSHA established PEL - If none available, adopted value.

EFFECTS OF OVEREXPOSURE : Given in general terms; local and systemic effects to the eyes, skin, if material is inhaled, unless not applicable due to physical form of product.

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ABBREVIATIONS USED IN MSDS

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NA = Not Applicable

NE = Not Established

NR = Not Required

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NOTICE

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All information, recommendations, and suggestions appearing herein concerning this product are based upon data obtained from the manufacturer and/or recognized technical sources; however, ProTech Professional Products, Inc. makes no warranty, representation or guaranty as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of the product. Additional product literature may be available upon request since actual use by others is beyond our control, no warranty, express or implied, is made by ProTech Professional Products, Inc. as to the effects of such use, the results to be obtained or the safety and toxicity of the product, nor does ProTech Professional Products, Inc. assume any liability arising out of use by others of the product referred to herein. The data in this Material Safety Data Sheet relate only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

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