

MATERIAL SAFETY DATA SHEET

SECTION I

Product Name: ProTech Plus™ Monomer Component

Distributor: ProTech Professional Products, Inc.
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SECTION II - HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	TLV (Units)
Methyl Methacrylate		100 ppm

SECTION III - PHYSICAL DATA

Boiling Point: Deg. C. / mm Hg: 101 /
Specific Gravity (H₂O=1): .9444
Vapor Pressure: mm Hg at Deg. C.
Percent Volatile W/W%: Vapor Density (AIR=1):
Evaporation Rate (=1): Solubility in Water: Non-soluble
Appearance and Odor: Colorless transparent liquid

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point, Tag Closed, Deg. C.: 10
Flammable Limit, Air Vol% Lower: 1.7% **Upper:** 8.2%
Autoignition Temperature, Deg. C.:
Extinguisher Method: Foam; Dry Chemical; Carbon Dioxide
Special Fire Fighting Procedures: Self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: When exposed to flame, emits toxic fumes.

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value (TLV): For monomeric MMA:
Effects of Over-Exposure: Headaches, dizziness, and irritant on human skin.
Medical Conditions Aggravated by Exposure:
Emergency and First Aid Procedures:
Inhalation: Remove to fresh air.
Eyes: Immediately flush eye with water.
Skin: Wash off skin with soap and water.
Ingestion: Induce vomiting.
Burn:

Carcinogenicity	NTP?	IARC Monographs?	OSHA Regulated?
No	No	No	No

SECTION VI - REACTIVITY DATA

Stability: UNSTABLE: STABLE: XX
Conditions to Avoid: Heat and Light.
Incompatibility (Materials to Avoid): Polymerization catalyst, nitric acid or strong oxidizers.
Hazardous Decomposition Products:
Hazardous Polymerization: MAY OCCUR: X WILL NOT OCCUR:
Conditions to Avoid: Heat or catalyst.

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:
Absorb small quantities on paper towel, allow sufficient time for evaporating vapors until completely clear.
Waste Disposal Method:
Burn paper in a suitable location away from combustible materials.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): NIOSH approved respiratory protection for organic gases, if needed.
Ventilation: Local exhaust to keep exposure to a minimum.
Protective Gloves: Rubber or PVC gloves.
Eye Protection: Safety glasses or full face shield.
Other protective clothing or equipment:
Work/Hygienic Practices: Safety shower and sufficient eye wash station.

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in Handling and Storing: Do not store under pure nitrogen or oxygen-free gas.
Other Precautions:

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:

1. 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
2. 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
3. It contributes to one or more of the following hazards of the product:
 - a. Flashpoint below 93° C (CC), or subject to spontaneous heating or decomposition.
 - b. Causes skin burns. (DOT)
 - c. Strong oxidizing agent. (DOT)
 - d. 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. Its 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°C and is given in °C at 760 mm of Hg.
VAPOR PRESSURE: If liquid at 20°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°C.
EVAPORATION RATE: Indicated with reference to Butyl Acetate, unless stated.

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.

ABBREVIATIONS USED IN MSDS

NA = Not Applicable NE = Not Established NR = Not Required

NOTICE

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.