

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Polystar 79 HC Liquid
Product Number: 8154, 8155, 8156
Chemical Name: Methyl Methacrylate Monomer
Chemical Family: Ester

Company Identification

CMP Industries LLC
413 North Pearl St
Albany, NY 12207-1311 USA
(518)-434-3147 (For product information)
(800)-424-9300 (For emergencies)
1-800-424-9300 or 1-703-527-3887 (CHEMTREC)

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
METHYL METHACRYLATE MONOMER	60.0 - 100.0 %	80-62-6
ETHYLENE GLYCOL DIMETHACRYLATE	0.0 - 20.0 %	97-90-5

(See Section 8 for exposure guidelines)

(See Section 15 for regulatory information)

HAZARDS DISCLOSURE

MISCELLANEOUS:

This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29CFR 1910.1200.

3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****
* * *

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* Can cause dizziness, nausea, headache & loss of *
* consciousness. Can cause irritation to the eyes, *
* skin and respiratory tract. *
* *

POTENTIAL HEALTH EFFECTS

EYE:

Can cause eye irritation.

SKIN:

Can cause skin irritation.

INHALATION:

Can cause respiratory irritation.

SIGNS AND SYMPTOMS OF EXPOSURE:

Headaches, nausea, staggering gait, confusion, drowsiness and unconsciousness.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Flush eye with water for 15 minutes. Seek medical attention.

SKIN CONTACT FIRST AID:

Immediately wash skin with soap and plenty of water. Seek medical attention.

INHALATION FIRST AID:

Remove to fresh air. Have qualified personnel administer oxygen. Seek medical attention.

INGESTION FIRST AID:

If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

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(section 5 continued)

FLAMMABLE PROPERTIES

COC Flash Point: 11.5 C (52.7 F)
Autoignition Temperature: 421.0 C (789.8 F)

FLAMMABLE LIMITS IN AIR

LEL: 2.12 %
UEL: 12.5 %

EXTINGUISHING MEDIA:

Carbon dioxide, foam, or dry powder.

FIRE & EXPLOSION HAZARDS:

Sealed containers exposed to elevated temperatures may rupture due to polymerization. Vapors may travel to ignition source. High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during a runaway polymerization. Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product.

MISCELLANEOUS:

Self contained breathing apparatus with full face mask operated in a positive pressure demand mode.

6. ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL):

Before cleaning any spill or leak, individuals involved must wear appropriate Personal Protective Equipment (e.g., goggles, gloves). Deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Use ONLY non-sparking tools for recovery and cleanup. Maximize ventilation (open doors and windows) and secure all sources of ignition. Place into appropriate closed container(s) for disposal in accordance with local, state and federal regulations. Wash all affected areas with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

INITIAL CONTAINMENT:

Collect and store material in closed DOT approved waste container.



7. HANDLING AND STORAGE

STORAGE PRECAUTIONS:

Store in cool dry environment away from direct sunlight and ignition sources.

HANDLING:

Ground container when pouring.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Local exhaust ventilation recommended.

EYE / FACE PROTECTION REQUIREMENTS:

Wear safety glasses.

SKIN PROTECTION REQUIREMENTS:

Wear nitrile rubber or other impervious gloves to minimize skin contact.

RESPIRATORY PROTECTION REQUIREMENTS:

Use NIOSH approved respirator with an organic vapor cartridge when TLV is exceeded.

MISCELLANEOUS:

Occupational Exposure Limits:

Methyl Methacrylate:

50 ppm TWA TLV.

100 ppm STEL TLV.

100 ppm TWA PEL.

50 ppm TWA DFG MAK.

50 ppm TWA UK WEL.

100 ppm STEL UK WEL.

Ethylene Glycol Dimethacrylate:

None Established.

EXPOSURE GUIDELINES:

No Information Available.



9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid
COLOR: Colorless
ODOR: Acrid
BOILING POINT: 101C 214F C
VAPOR PRESSURE: 28 mm Hg @20 C 68 F
VAPOR DENSITY: 3.5 @ 15.5 C 60 F (Air = 1)
SOLUBILITY IN WATER ...: Moderate, 1.6% wt % @ 20 C 68 F
SPECIFIC GRAVITY: 0.949 gmL @ 15.5 C (Water = 1)
% VOLATILES: 99+ %
EVAPORATION RATE: 3.1

10. STABILITY AND REACTIVITY

STABILITY:

Unstable. / Reactive upon depletion of Inhibitor.

POLYMERIZATION:

Polymerization may occur. Conditions leading to polymerization are excessive heat, oxygen-free atmosphere inhibitor depletion (due to excessive aging), direct sunlight, and contamination with polymerization catalysts.

INCOMPATIBILITY WITH OTHER MATERIALS:

Avoid reducing and oxidizing materials.

DECOMPOSITION:

Carbon Monoxide, Carbon Dioxide, Methacrylate and irritating smoke and fumes.

CONDITIONS TO AVOID:

Avoid direct heat and other ignition sources.

11. TOXICOLOGICAL INFORMATION

MISCELLANEOUS:

TARGET ORGANS:

For Methyl Methacrylate: Nose, Liver and Kidneys (long term to high levels).

MUTAGENICITY DATA:

Methyl methacrylate and ethylene glycol dimethacrylate have tested positive in some mutagenicity tests.



(section 11 continued)

REPRODUCTION AND BIRTH EFFECTS:

Recent studies in animals have shown that high exposures do not have reproductive effects. Similarly, none of these effects are likely to occur in humans provided exposure is maintained at or below the occupational exposure limit.

TOXICITY DATA:

This product has not been tested on animals. The toxicity data presented in scientific literature is: Acute Oral Rat: LD50, >7900 mg/kg.

12. ECOLOGICAL INFORMATION

MISCELLANEOUS:

For Monomer: There is no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life. There is ecological data for the components of the products, which is found in scientific literature. Here is one data point: Methyl Methacrylate Fathead Minnow - LC50: 130 mg/L, 96H.

13. DISPOSAL CONSIDERATIONS

CONTAMINATED MATERIALS:

When discarded it is a hazardous waste by the EPA under RCRA. The reportable quantity (RQ) for Methyl Methacrylate is 1000 pounds (40 CFR Part 302). After addition of excess inhibitor, dispose waste material in accordance with Federal, State and Local regulations.

CONTAINER DISPOSAL:

Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards, due to residual flammable material, associated with empty containers. Dispose of all empty containers properly, in accordance with Federal, State and Local regulations.

14. TRANSPORTATION INFORMATION

PRODUCT LABEL: Polystar 79 HC Liquid
D.O.T. SHIPPING NAME: METHYL METHACRYLATE MONOMER, STABILIZED, SOLUTION
TECHNICAL SHIPPING NAME ...: Methyl Methacrylate Monomer, Inhibited
D.O.T. HAZARD CLASS: 3, PG II
UN NUMBER: UN 1247
PRODUCT RQ (LBS): For Methacrylate: 1000 lb.
D.O.T. LABEL: (49CFR172.101): Flammable Liquid



15. REGULATORY INFORMATION

REGULATORY DISCLOSURES:

SARA Reporting Requirements: Yes.

SARA Threshold Planning Quantity: There are specific Threshold Planning Quantities for the components of this product.

TSCA Inventory Status: The components of this product are listed on the TSCA Inventory.

Other Federal Requirements: This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR.

Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List.

State Regulatory Information: This product may contain components that are covered under specific state criteria.

EEC Symbols and Indications of Danger:

Highly flammable (F)



R-Phrases:

R11 - Highly flammable.

R36/37/38 - Irritating to eyes, respiratory system, and skin.

R43 - May cause sensitization by skin contact.

S-Phrases:

S3 - Keep in a cool place.

S7 - Keep container tightly closed.

S9 - Keep container in a well-ventilated place.

S16 - Keep away from sources of ignition. No smoking.

S20 - When using, do not eat or drink.

S24 - Avoid contact with skin.

S29 - Do not empty into drains.

S37/39 - Wear suitable gloves and eye/face protection.

S46 - If swallowed, seek medical advice immediately and show this container or label.

WHMIS Hazard Symbols:

None



(section 15 continued)

Canadian Disclosure List

Methyl Methacrylate Monomer (80-62-6)

SARA Title III - Section 313

Methyl Methacrylate Monomer (80-62-6)

CERCLA Hazardous Substances

Methyl Methacrylate Monomer (80-62-6) -- RQ 1000 lb

RCRA Hazardous Substances

Methyl Methacrylate Monomer (80-62-6) -- RCRA Code: U162

Title V

Methyl Methacrylate Monomer (80-62-6)

SC Toxic Air Pollutants List

Methyl Methacrylate Monomer (80-62-6)

MISCELLANEOUS INFORMATION:

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:

HEALTH: 2.

FLAMMABILITY: 3.

REACTIVITY: 2.

PERSONAL PROTECTIVE EQUIPMENT: Gloves and Safety Glasses or Chemical Splash Goggles.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:

HEALTH: 2.

FLAMMABILITY: 3.

REACTIVITY: 2.

16. OTHER INFORMATION

REASON FOR ISSUE ...: New MSDS
PREPARED BY: John Nicpon
APPROVED BY: John Nicpon
TITLE: Quality Manager
APPROVAL DATE: May 29, 2009
SUPERCEDES DATE: March 10, 2008
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END OF MSDS

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