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Certified Company



THE POWER OF THREE<sup>3</sup>

**PHARMCO-AAPER**

AND COMMERCIAL ALCOHOLS

Product Information (203) 740-3471 / Emergency Assistance CHEMTREC 1-800-424-9300

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**MATERIAL SAFETY DATA SHEETS**

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Manufacturer: PHARMCO-AAPER  
58 Vale Road  
Brookfield, Connecticut 06804, USA  
Phone (203) 740-3471  
Fax (203) 740-3481

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Shelbyville, KY 40065  
Phone (502) 633-0650  
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Emergency Contact:  
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**METHYL METHACRYLATE**

**1. PRODUCT IDENTIFICATION**

SYNONYMS: METHYL METHACRYLATE, MONOMER INHIBITED; 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER; METHACRYLIC ACID, METHYL ESTER; METHYL 2-METHYL-2-PROPENOATE  
CAS NO: 80-62-6  
MOLECULAR WEIGHT: 100.12  
CHEMICAL FORMULA: CH<sub>2</sub>:C(CH<sub>3</sub>)COOCH<sub>3</sub>

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT	CAS NO	PERCENT	HAZARDOUS
METHYL METHACRYLATE	80-62-6	90 - 100%	YES

**3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

DANGER! HEATING, SUNLIGHT OR CONTACT WITH INCOMPATIBLE MATERIALS MAY CAUSE

EXPLOSIVE POLYMERIZATION. FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED

OR INHALED. AFFECTS CENTRAL NERVOUS SYSTEM. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN.

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HEALTH RATING: 2 - MODERATE

FLAMMABILITY RATING: 4 - EXTREME (FLAMMABLE)

REACTIVITY RATING: 2 - MODERATE

CONTACT RATING: 2 - MODERATE

LAB PROTECTIVE EQUIP: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES; CLASS B EXTINGUISHER

STORAGE COLOR CODE: RED (FLAMMABLE)

POTENTIAL HEALTH EFFECTS

**INHALATION:**

INHALATION OF VAPORS IRRITATES THE RESPIRATORY TRACT. SYMPTOMS FROM OVEREXPOSURE CAN INCLUDE COUGHING, CHEST PAIN, HEADACHE, DROWSINESS, AUSEA, ANOREXIA, IRRITABILITY AND NARCOSIS. VERY HIGH LEVELS MAY CAUSE PULMONARY EDEMA AND DEATH. THIS MATERIAL HAS BEEN LINKED TO CARDIAC ARREST AND OTHER CARDIOVASCULAR PROBLEMS BECAUSE OF ITS ABILITY TO LOWER THE BLOOD PRESSURE.

**INGESTION:**

HARMFUL IF SWALLOWED. MAY CAUSE DIARRHEA, NAUSEA AND VOMITING. SWALLOWING

PRODUCES ACUTE SYSTEMIC EFFECTS PARALLELING INGESTION. INGESTION HAS BEEN LINKED TO LIVER AND KIDNEY DAMAGE.

**SKIN CONTACT:**

CAUSES IRRITATION TO SKIN. SYMPTOMS INCLUDE REDNESS, ITCHING, AND PAIN. MAY CAUSE ALLERGIC SKIN REACTIONS. MAY BE ABSORBED THROUGH THE SKIN (SEE CHRONIC EFFECTS).

**EYE CONTACT:**

CAUSES IRRITATION, REDNESS, AND PAIN.

**CHRONIC EXPOSURE:**

DENTAL TECHNICIANS USING BARE HANDS WITH METHYL METHACRYLATE MOLDING PUTTY DEVELOPED CHANGES IN THE NERVE IMPULSE TRANSMISSION IN THE FINGERS. REPEATED SKIN EXPOSURES MAY CAUSE TINGLING OR PRICKLING SENSATION OF THE SKIN.

**AGGRAVATION OF PRE-EXISTING CONDITIONS:**

PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS, OR IMPAIRED LIVER, KIDNEY OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

**4. FIRST AID MEASURES**

**INHALATION:**

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION.

**INGESTION:**

INDUCE VOMITING IMMEDIATELY AS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION.

**SKIN CONTACT:**

IMMEDIATELY FLUSH SKIN WITH PLENTY OF SOAP AND WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION, IMMEDIATELY. WASH CLOTHING BEFORE REUSE. THOROUGHLY CLEAN SHOES BEFORE REUSE.

**EYE CONTACT:**

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, LIFTING LOWER AND UPPER EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION IMMEDIATELY.

**NOTE TO PHYSICIAN:**

AFTER VOMITING, HAVE VICTIM DRINK A MIXTURE OF 2 TABLESPOONFULS OF aJ.T. BAKER SAF-T-DATA(TM) RATINGS (PROVIDED HERE FOR YOUR CONVENIENCE)

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HEALTH RATING: 2 – MODERATE

FLAMMABILITY RATING: 4 – EXTREME (FLAMMABLE)

REACTIVITY RATING: 2 – MODERATE

CONTACT RATING: 2 – MODERATE

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EXTINGUISHER  
STORAGE COLOR CODE: RED (FLAMMABLE)

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POTENTIAL HEALTH EFFECTS

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INDUCE VOMITING IMMEDIATELY AS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION.

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EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, LIFTING LOWER AND UPPER EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION IMMEDIATELY.

NOTE TO PHYSICIAN:

AFTER VOMITING, HAVE VICTIM DRINK A MIXTURE OF 2 TABLESPOONFULS OF ACTIVATED CHARCOAL AND 8 OUNCES OF WATER.

## **5. FIRE FIGHTING MEASURES**

FIRE:

FLASH POINT: 10C (50F) OC

AUTOIGNITION TEMPERATURE: 435C (815F)

FLAMMABLE LIMITS IN AIR % BY VOLUME:

LEL: 1.7; UEL: 8.2

FLAMMABLE LIQUID CONTACT WITH STRONG OXIDIZERS MAY CAUSE FIRE.

EXPLOSION:

ABOVE FLASH POINT, VAPOR-AIR MIXTURES ARE EXPLOSIVE WITHIN FLAMMABLE LIMITS

NOTED ABOVE. VIOLENT ERUPTION OF CLOSED CONTAINERS MAY OCCUR WHEN POLYMERIZATION OCCURS. POLYMERIZATION MAY BE CAUSED BY ELEVATED TEMPERATURE, OXIDIZERS, PEROXIDES, OR SUNLIGHT. VAPORS CAN FLOW ALONG SURFACES TO DISTANT IGNITION SOURCE AND FLASH BACK. SEALED CONTAINERS MAY RUPTURE WHEN HEATED. SENSITIVE TO STATIC DISCHARGE.

FIRE EXTINGUISHING MEDIA:

DRY CHEMICAL, ALCOHOL FOAM OR CARBON DIOXIDE. WATER MAY BE INEFFECTIVE. MATERIAL FLOATS ON WATER AND MAY TRAVEL BACK TO AN IGNITION SOURCE AND SPREAD FIRE. WATER MAY BE USED TO FLUSH SPILLS AWAY FROM EXPOSURES AND TO DILUTE SPILLS TO NON-FLAMMABLE MIXTURES. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL.

SPECIAL INFORMATION:

IN THE EVENT OF A FIRE, WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

## **6. ACCIDENTAL RELEASE MEASURES**

VENTILATE AREA OF LEAK OR SPILL. REMOVE ALL SOURCES OF IGNITION. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT AS SPECIFIED IN SECTION 8. ISOLATE HAZARD AREA. KEEP UNNECESSARY AND UNPROTECTED PERSONNEL FROM ENTERING. CONTAIN AND RECOVER LIQUID WHEN POSSIBLE. USE NON-SPARKING TOOLS AND EQUIPMENT. COVER LIQUID WITH AN ACTIVATED CARBON ABSORBENT, AND PLACE IN A CHEMICAL WASTE CONTAINER. DO NOT FLUSH TO SEWER! IF A LEAK OR SPILL HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE THE VAPORS, TO PROTECT PERSONNEL ATTEMPTING TO STOP LEAK, AND TO FLUSH SPILLS AWAY FROM EXPOSURES. US REGULATIONS (CERCLA) REQUIRE REPORTING SPILLS AND RELEASES TO SOIL, WATER AND AIR IN EXCESS OF REPORTABLE QUANTITIES.

## **7. HANDLING AND STORAGE**

PROTECT AGAINST PHYSICAL DAMAGE. STORE IN A COOL, DRY WELL-VENTILATED LOCATION, AWAY FROM ANY AREA WHERE THE FIRE HAZARD MAY BE ACUTE. OUTSIDE OR

DETACHED STORAGE IS PREFERRED. SEPARATE FROM INCOMPATIBLES. CONTAINERS SHOULD BE BONDED AND GROUNDED FOR TRANSFERS TO AVOID STATIC SPARKS. STORAGE

AND USE AREAS SHOULD BE NO SMOKING AREAS. USE NON-SPARKING TYPE TOOLS AND EQUIPMENT, INCLUDING EXPLOSION PROOF VENTILATION. PROTECT FROM DIRECT SUNLIGHT. REGULARLY CHECK THE INHIBITOR CONCENTRATION. FOR THE INHIBITOR TO BE EFFECTIVE, LOW LEVELS OF DISSOLVED OXYGEN MUST BE PRESENT IN THE METHYL METHACRYLATE. DO NOT STORE UNDER PURE NITROGEN OR SPARGE WITH NITROGEN OR

OTHER OXYGEN-FREE GAS. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTY SINCE THEY RETAIN PRODUCT RESIDUES (VAPORS, LIQUID); OBSERVE ALL WARNINGS AND PRECAUTIONS LISTED FOR THE PRODUCT. DO NOT ATTEMPT TO CLEAN EMPTY CONTAINERS SINCE RESIDUE IS DIFFICULT TO REMOVE. DO NOT PRESSURIZE,

CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, SPARKS, FLAME, STATIC ELECTRICITY OR OTHER SOURCES OF IGNITION: THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

AIRBORNE EXPOSURE LIMITS:

METHYL METHACRYLATE:

-OSHA PERMISSIBLE EXPOSURE LIMIT (PEL): 100 PPM (TWA)

-ACGIH THRESHOLD LIMIT VALUE (TLV): 50 PPM (TWA), 100 PPM (STEL), SENSITIZER, A4

-NOT CLASSIFIABLE AS A HUMAN CARCINOGEN.

VENTILATION SYSTEM:

A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES BELOW THE AIRBORNE EXPOSURE LIMITS. LOCAL EXHAUST VENTILATION IS GENERALLY PREFERRED BECAUSE IT CAN CONTROL THE EMISSIONS OF THE CONTAMINANT

AT ITS SOURCE, PREVENTING DISPERSION OF IT INTO THE GENERAL WORK AREA.

PLEASE REFER TO THE ACGIH DOCUMENT, "INDUSTRIAL VENTILATION, A MANUAL OF RECOMMENDED PRACTICES", MOST RECENT EDITION, FOR DETAILS. USE EXPLOSION-PROOF EQUIPMENT.

PERSONAL RESPIRATORS (NIOSH APPROVED):

IF THE EXPOSURE LIMIT IS EXCEEDED AND ENGINEERING CONTROLS ARE NOT FEASIBLE, A HALF-FACE ORGANIC VAPOR RESPIRATOR MAY BE WORN FOR UP TO TEN TIMES THE EXPOSURE LIMIT, OR THE MAXIMUM USE CONCENTRATION SPECIFIED BY THE APPROPRIATE REGULATORY AGENCY OR RESPIRATOR SUPPLIER, WHICHEVER IS LOWEST.

A FULL-FACE PIECE ORGANIC VAPOR RESPIRATOR MAY BE WORN UP TO 50 TIMES THE EXPOSURE LIMIT, OR THE MAXIMUM USE CONCENTRATION SPECIFIED BY THE APPROPRIATE REGULATORY AGENCY OR RESPIRATOR SUPPLIER, WHICHEVER IS LOWEST.

FOR EMERGENCIES OR INSTANCES WHERE THE EXPOSURE LEVELS ARE NOT KNOWN, USE A

FULL-FACE PIECE POSITIVE-PRESSURE, AIR-SUPPLIED RESPIRATOR. WARNING: AIR-PURIFYING RESPIRATORS DO NOT PROTECT WORKERS IN OXYGEN-DEFICIENT ATMOSPHERES. WHERE RESPIRATORS ARE REQUIRED, YOU MUST HAVE A WRITTEN PROGRAM COVERING THE BASIC REQUIREMENTS IN THE OSHA RESPIRATOR STANDARD. THESE INCLUDE TRAINING, FIT TESTING, MEDICAL APPROVAL, CLEANING, MAINTENANCE, CARTRIDGE CHANGE SCHEDULES, ETC. SEE 29CFR1910.134 FOR DETAILS.

SKIN PROTECTION:

WEAR IMPERVIOUS PROTECTIVE CLOTHING, INCLUDING BOOTS, GLOVES, LAB COAT, APRON OR COVERALLS, AS APPROPRIATE, TO PREVENT SKIN CONTACT.

EYE PROTECTION:

USE CHEMICAL SAFETY GOGGLES AND/OR A FULL FACE SHIELD WHERE SPLASHING IS POSSIBLE. MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: BOILING POINT: CLEAR, COLORLESS LIQUID. 100C (212F)

ODOR: MELTING POINT:

SWEET, SHARP ODOR. -48C (-54F)

SOLUBILITY: VAPOR DENSITY (AIR=1):

1.5 GM IN 100 GM WATER. 3.6

SPECIFIC GRAVITY: VAPOR PRESSURE (MM HG):

0.944 @ 20C/40 @ 25.5C (79F)

PH: EVAPORATION RATE (BUAC=1):

NO INFORMATION FOUND. 3.1

% VOLATILES BY VOLUME @ 21C (70F): 100

## 10. STABILITY AND REACTIVITY

### STABILITY:

INHIBITED METHYL METHACRYLATE IS STABLE AT ROOM TEMPERATURE FOR A LIMITED STORAGE PERIOD. VAPORS ARE UNINHIBITED AND MAY FORM POLYMERS IN VENTS, CAUSING STOPPAGE. VIOLENT ERUPTION OF CLOSED CONTAINERS MAY OCCUR WHEN POLYMERIZATION OCCURS. POLYMERIZATION MAY BE CAUSED BY ELEVATED TEMPERATURE, OXIDIZERS, PEROXIDES, OR SUNLIGHT.

### HAZARDOUS DECOMPOSITION PRODUCTS:

CARBON DIOXIDE AND CARBON MONOXIDE MAY FORM WHEN HEATED TO DECOMPOSITION.

### HAZARDOUS POLYMERIZATION:

SEE ABOVE.

### INCOMPATIBILITIES:

INCOMPATIBLE WITH POLYMERIZATION CATALYSTS (PEROXIDES, PERSULFATES) LIGHT, HEAT, NITRIC ACID AND OTHER STRONG OXIDIZERS, AMMONIA, AMINES, HALOGENS AND HALOGEN COMPOUNDS.

### CONDITIONS TO AVOID:

INSUFFICIENT INHIBITOR, INCOMPATIBLES, HEAT, FLAME AND IGNITION SOURCES

## 11. TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL DATA:

ORAL RAT LD50: 7872 MG/KG; INHALATION RAT LC50: 78,000 MG/M3/4-HOUR.

INVESTIGATED AS A TUMORIGEN, MUTAGEN, REPRODUCTIVE EFFECTOR.

### REPRODUCTIVE TOXICITY:

HAS CAUSED MUTAGENIC AND TERATOGENIC EFFECTS ON LABORATORY ANIMALS.

-----\CANCER LISTS\-----

-----NTP CARCINOGEN-----

INGREDIENT KNOWN ANTICIPATED IARC CATEGOR

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METHYL METHACRYLATE (80-62-6) NO NO 3

## 12. ECOLOGICAL INFORMATION

### ENVIRONMENTAL FATE:

WHEN RELEASED INTO THE SOIL, THIS MATERIAL MAY BIODEGRADE TO A MODERATE EXTENT. WHEN RELEASED INTO THE SOIL, THIS MATERIAL MAY LEACH INTO GROUNDWATER. WHEN RELEASED INTO THE SOIL, THIS MATERIAL IS EXPECTED TO QUICKLY EVAPORATE. WHEN RELEASED INTO WATER, THIS MATERIAL MAY BIODEGRADE

TO A MODERATE EXTENT. WHEN RELEASED TO WATER, THIS MATERIAL IS EXPECTED TO QUICKLY EVAPORATE. THIS MATERIAL HAS AN ESTIMATED BIOCONCENTRATION FACTOR

(BCF) OF LESS THAN 100. THIS MATERIAL IS NOT EXPECTED TO SIGNIFICANTLY BIOACCUMULATE. WHEN RELEASED INTO THE AIR, THIS MATERIAL IS EXPECTED TO BE READILY DEGRADED BY REACTION WITH PHOTOCHEMICALLY PRODUCED HYDROXYL RADICALS.

### ENVIRONMENTAL TOXICITY:

NO INFORMATION FOUND.

## 13. DISPOSAL CONSIDERATIONS

WHATEVER CANNOT BE SAVED FOR RECOVERY OR RECYCLING SHOULD BE HANDLED AS HAZARDOUS WASTE AND SENT TO A RCRA APPROVED INCINERATOR OR DISPOSED IN A RCRA APPROVED WASTE FACILITY. PROCESSING, USE OR CONTAMINATION OF THIS PRODUCT MAY CHANGE THE WASTE MANAGEMENT OPTIONS. STATE AND LOCAL DISPOSAL

REGULATIONS MAY DIFFER FROM FEDERAL DISPOSAL REGULATIONS.  
DISPOSE OF CONTAINER AND UNUSED CONTENTS IN ACCORDANCE WITH FEDERAL,  
STATE  
AND LOCAL REQUIREMENTS.

#### 14. TRANSPORT INFORMATION

DOMESTIC (LAND, D.O.T.)

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PROPER SHIPPING NAME: METHYL METHACRYLATE MONOMER, INHIBITED  
HAZARD CLASS: 3  
UN/NA: UN1247 PACKING GROUP: II  
INFORMATION REPORTED FOR PRODUCT/SIZE: 4L  
INTERNATIONAL (WATER, I.M.O.)

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PROPER SHIPPING NAME: METHYL METHACRYLATE MONOMER, INHIBITED  
HAZARD CLASS: 3  
UN/NA: UN1247 PACKING GROUP: II  
INFORMATION REPORTED FOR PRODUCT/SIZE: 4L  
INTERNATIONAL (AIR, I.C.A.O.)

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#### 15. REGULATORY INFORMATION

-----\CHEMICAL INVENTORY STATUS - PART 1\  
INGREDIENT TSCA EC JAPAN AUSTRALI

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METHYL METHACRYLATE (80-62-6) YES YES YES YES  
---CANADA---  
INGREDIENT KOREA DSL NDSL PHIL.

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METHYL METHACRYLATE (80-62-6) YES YES NO YES  
-----\FEDERAL, STATE & INTERNATIONAL REGULATIONS - PART 1\  
-SARA 302- -----SARA 313-----  
INGREDIENT RQ TPQ LIST CHEMICAL CATG

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METHYL METHACRYLATE (80-62-6) NO NO YES NO  
-----\FEDERAL, STATE & INTERNATIONAL REGULATIONS - PART 2\  
-RCRA- -TSCA-  
INGREDIENT CERCLA 261.33 8(D)

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METHYL METHACRYLATE (80-62-6) 1000 U162 YES  
CHEMICAL WEAPONS CONVENTION: NO TSCA 12(B): NO CDTA: NO  
SARA 311/312: ACUTE: YES CHRONIC: YES FIRE: YES PRESSURE: NO  
REACTIVITY: YES (PURE / LIQUID)  
AUSTRALIAN HAZCHEM CODE: 3[Y]E  
POISON SCHEDULE: NONE ALLOCATED.

WHMIS: THIS MSDS HAS BEEN PREPARED ACCORDING TO THE HAZARD CRITERIA OF  
THE CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS  
ALL OF THE INFORMATION REQUIRED BY THE CPR.

**Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA):** No  
chemicals ion this material with known CAS numbers are subject to the reporting requirements of  
CERCLA

#### **16. OTHER INFORMATION**

The information contained herein is based on data considered to be accurate based on the material as packaged. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It is the user's obligation to determine the conditions of safe use of the product. While this MSDS is based on technical data judged to be reliable, PHARMCO-AAPER assumes not responsibility for the completeness or accuracy of the information contained herein.