

## MATERIAL SAFETY DATA SHEET

Product No.: CP-83MPR

SECTION I - XVI

## SECTION I - PRODUCT &amp; COMPANY IDENTIFICATION

BLOME CP-83MP RESIN

MANUFACTURER: BLOME INTERNATIONAL  
1450 HOFF INDUSTRIAL DRIVE  
O'FALLON, MO 63366

PHONE NO.: 636-379-9119

EMERGENCY PHONE NUMBER: (800)-424-9300

MSDS ISSUE DATE: 03/22/01

## SECTION II - INGREDIENTS/HAZARD INFORMATION

EPOXY RESIN LIQUID

\* CAS No.: 25085-99-8 Percent By Weight: 60 To 65 LEL: NA UEL: NA  
OSHA PEL: NE ppm NE mg/M3 TWA ACGIH TLV: NE ppm NE mg/M3 TWA  
LD50: Skin 20,000 mg/kg LC50: LD 50 ORAL >5000 mg/kg V.P.(1) NA  
Listed On(2) a: N b: N c: N d: Y e: N f: N g: Y h: N  
Skin sensitizer.

CRYSTALLINE SILICA

\* CAS No.: 14808-60-7 Percent By Weight: 25 To 30 LEL: NA UEL:  
OSHA PEL: NA ppm 0.098 mg/M3 TWA ACGIH TLV: NA ppm 0.05 mg/M3 TWA  
LD50: NA LC50: NA V.P.(1) NA  
Listed On(2) a: N b: N c: N d: Y e: Y f: Y g: Y h: N  
RESPIRABLE DUST CAN CAUSE SILICOSIS, CANCER, AUTOIMMUNE DISEASES

AMORPHOUS SILICA

\* CAS No.: 112926-00-8 Percent By Weight: 5 To 10 LEL: NA UEL: NA  
OSHA PEL: NA ppm 6 mg/M3 TWA ACGIH TLV: NA ppm 10 mg/M3 TWA  
LD50: NA LC50: NA V.P.(1) NA  
Listed On(2) a: N b: N c: N d: Y e: N f: N g: N h: N  
Contains no free crystalline silica.

TITANIUM DIOXIDE

\* CAS No.: 13463-67-7 Percent By Weight: 1 To 5 LEL: NA UEL:  
OSHA PEL: NA ppm 10 mg/M3 TWA ACGIH TLV: NA ppm 10 mg/M3 TWA  
LD50: LC50: V.P.(1) NA  
Listed On(2) a: N b: N c: N d: Y e: N f: N g: N h: N

\* Defined as hazardous per 29 CFR 1910.1200 \*\* Indicates Active Ingredient

(1) Vapor Pressure In mm Hg

(2) a = SARA 302/304 b = SARA 313 c = CERCLA 103(a) d = TSCA e = NTP Carcinogen f = IARC Carcinogen  
g = California Prop. 65 h = OSHA Carcinogen

NOTE: Multi-component products when mixed will have the cumulative hazards of all components.

## SECTION III - HAZARD IDENTIFICATION

EFFECTS OF OVEREXPOSURE - ACUTE:

Breathing: Irritation of the respiratory tract; headache, nausea, dizziness.

Eye or Skin Contact: May cause eye and skin irritation.

Swallowing: No effects anticipated from ingestion incidental to normal use. Larger quantities may cause distress of the digestive tract and nausea.

CHRONIC: Crystalline silica has been classified as carcinogenic for humans (2A) by IARC. The excessive inhalation of crystalline silica is also a known cause of silicosis. (Risk depends on duration and level of exposure.) Other possible chronic effects are silicosis, cancer, scleroderma and tuberculosis. The main route of entry is inhalation of crystalline silica. Dry silica powder should be handled with great care. When the silica is mixed and wetted by the other components the risk of inhalation is greatly reduced.

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**SECTION III - HAZARD IDENTIFICATION Con't.**

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**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** If you are allergic or have been sensitized to: epoxies, amines, isocyanates, detergents, or other chemicals see a physician prior to use. If none of these conditions exist and you use the product in accordance with the Safe Handling and Use Information (Sections VII and VIII) you should expect no mild medical conditions to be aggravated.

**ROUTE(S) OF ENTRY:** (X)SKIN (X)BREATHING (X)SWALLOWING

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**SECTION IV - FIRST AID MEASURES**

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**IF BREATHED:** Remove to fresh air.

**IF IN EYES:** In case of eye contact, flush with large amounts of water for at least 15 minutes. Get medical assistance.

**IF ON SKIN:** Remove with soap and water. Remove soiled clothing. Get medical assistance.

**IF SWALLOWED:** Drink 1 or 2 glasses of water to dilute. Do not induce vomiting. Consult physician immediately. Treat symptomatically. Never give anything by mouth to an unconscious person.

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**SECTION V - FIRE FIGHTING MEASURES**

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**FLAMMABILITY CLASSIFICATION:** FLASH POINT: NONE

**EXTINGUISHING MEDIA:** In case of fire, use CO<sub>2</sub>, Dry Chemical, Foam or other National Fire Protection Association (NFPA) approved method for treating a Class B Fire.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Due to pressure build-up, closed containers exposed to extreme heat may explode. After water evaporates, remaining material will burn. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES:** Summon professional firefighters. Use full protective equipment including self-contained breathing apparatus. Water spray may be ineffective. If water is used, fog nozzles are preferable. If exposed to fire or extreme heat, water should be used to cool closed containers and prevent pressure build-up or possible auto-ignition.

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**SECTION VI - ACCIDENTAL RELEASE MEASURES**

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Wash with water. Before attempting clean-up, refer to hazard caution information in other sections of this material safety data form. Contain spilled material and remove with inert absorbent. Store in closed container until properly disposed of.

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**SECTION VII - HANDLING AND STORAGE**

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Store below 110°F and keep from freezing. Keep container closed when not in use. Do not reuse empty containers. Keep out of reach of children.

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**SECTION VIII - PERSONAL PROTECTION**

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**RESPIRATORY PROTECTION:** All workers and bystanders must be protected from exposure above Section II limits. Avoid breathing vapors, spray mist or sanding dust. Application by brush, roller, squeegee, or trowel will result in the lowest release of hazardous materials. When spray applied in outdoor or open areas with unrestricted ventilation, and during sanding or grinding operations, use NIOSH/MSHA approved mechanical filter respirator to remove solid airborne particles of over spray or sanding dust. When used in restricted areas, wear NIOSH/MSHA approved chemical/mechanical filters designed to remove a combination of particulates and vapor. When used in confined areas, wear NIOSH/MSHA approved air supply respirators or hoods. Use NIOSH/MSHA approved respirators when flame cutting, welding, brazing and sanding material coated with this product. The fumes from these operations can be hazardous. Do not breath them. Always use adequate ventilation. Whenever using respirators refer to OSHA 1910.134 for proper respirator use and safety program. The applicator determines the type of area in which the application is being made (unrestricted, restricted, or confined). The best determination of

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SECTION VIII - PERSONAL PROTECTION Con't.

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respirator type to use in a particular application is to monitor for the hazardous materials during actual application. The applicator should contact a qualified safety engineer for proper selection of safety equipment based on the application conditions.

NIOSH has recommended that the permissible exposure limit for crystalline silica be changed to 50 micrograms respirable free silica per cubic meter of air (Time Weighted Average).

PROTECTIVE GLOVES: Do not get on skin. Solvent impermeable gloves to prevent contact are recommended.

EYE PROTECTION: Do not get in eyes. Safety eyewear with splash guards or side shields are recommended to prevent contact.

OTHER PROTECTIVE EQUIPMENT: Do not get on skin. Solvent impermeable clothing and boots to prevent contact are recommended.

HYGIENIC PRACTICES: Remove and wash soiled clothing before reuse. Wash hands before eating, smoking or using the washroom. Remove any contaminated clothing and clean before reuse. Shoes and boots if contaminated must be replaced.

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SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

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WATER SOLUBILITY: Generally not miscible and lighter than water.

ODOR: Mild, characteristic of solvents listed in SECTION II.

WEIGHT PER GALLON: 12.29 Pounds

PERCENT VOLATILE BY VOLUME: 0.00

EVAPORATION RATE: ( )Faster (X) Slower Than Ether

BOILING RANGE: NA

VAPOR DENSITY: (X)Heavier ( )Lighter Than Air -

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SECTION X - STABILITY AND REACTIVITY

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STABILITY: ( )UNSTABLE (X)STABLE

INCOMPATIBILITY: Avoid contact with: mineral acids, amines, and strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS: May cause hazardous fumes when heated to decomposition. Fumes may contain carbon monoxide, carbon dioxide, unidentified phenolic compounds and oxides of metals listed in Section II.

HAZARDOUS POLYMERIZATION: ( )MAY OCCUR (X)WILL NOT OCCUR.

MIXED PRODUCT SHOULD NOT BE KEPT IN QUANTITIES GREATER THAN 3 LBS WEIGHT (approx. 1 QUART VOLUME LONGER THAN 25 TO 35 MINUTES. The product reacts quickly when in large mixed masses and develops heat quickly. It is possible for the mass to reach decomposition temperatures and give off dangerous gasses. ALWAYS pour the material out in thin thickness ( 1/4 inch or less) to avoid the mass reaction.

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SECTION XI - TOXICOLOGICAL INFORMATION

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No information available.

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SECTION XII - ECOLOGICAL INFORMATION

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No information available.

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SECTION XIII - DISPOSAL CONSIDERATIONS

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Dispose of in accordance with local, state and federal regulations. Incinerate only in approved facility. Do not incinerate closed containers.

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SECTION XIV - TRANSPORTATION INFORMATION

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DOT CLASS: Not Regulated

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SECTION XV - REGULATORY INFORMATION

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This product contains 0.00 pounds per gallon ( 0 grams/liter) volatile organic compounds. The VOC less water and exempt solvents is 0.00 lbs./gal. ( 0 gms./L.)

This product may contain chemicals as contaminants which are known to the state of California to cause cancer, birth defects or other reproductive harm. This product contains a chemical known to the state of California to cause cancer.

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SECTION XVI - OTHER INFORMATION

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HMIS RATING: (H)ealth 1\* (F)lammability 0 (R)eactivity 0

The information contained herein is based on data believed by BLOME INTERNATIONAL to be accurate, but we do not assume any liability for the accuracy of this information. We neither suggest nor guarantee that any hazards mentioned are the only ones which exist. Anyone intending to rely on any recommendation or to use any equipment, technique or material mentioned should also satisfy himself that he can meet all applicable safety and health standards.

## MATERIAL SAFETY DATA SHEET

Product No.: CP-83HT/MPH

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## SECTION I - PRODUCT &amp; COMPANY IDENTIFICATION

BLOME CP-83HT/CP-83MPH HARDENER

MANUFACTURER: BLOME INTERNATIONAL  
1450 HOFF INDUSTRIAL DRIVE  
O'FALLON, MO 63366

PHONE NO.: 636-379-9119

EMERGENCY PHONE NUMBER: (800)-424-9300

MSDS ISSUE DATE: 12/15/04

## SECTION II - INGREDIENTS/HAZARD INFORMATION

## CRYSTALLINE SILICA

\* CAS No.: 14808-60-7 Percent By Weight: 60 To 65 LEL: NA UEL:  
 OSHA PEL: NA ppm 0.098 mg/M3 TWA ACGIH TLV: NA ppm 0.05 mg/M3 TWA  
 LD50: NA LC50: NA V.P.(1) NA  
 Listed On(2) a: N b: N c: N d: Y e: Y f: Y g: Y h: N  
 RESPIRABLE DUST CAN CAUSE SILICOSIS, CANCER, AUTOIMMUNE DISEASES  
 POLYAMIDOAMINE

\* CAS No.: 68605-86-7 Percent By Weight: 20 To 25 LEL: NA UEL: NA  
 OSHA PEL: NE ppm NE mg/M3 TWA ACGIH TLV: NE ppm NE mg/M3 TWA  
 LD50: >1250 MG/KG ORAL LC50: >700 PPM/1 HR V.P.(1) 7.5  
 Listed On(2) a: N b: N c: N d: Y e: N f: N g: N h: N  
 LD50 DERMAL >2000 MG/KG CORROSIVE TO SKIN  
 DIETHYLANILINE

\* CAS No.: 91-66-7 Percent By Weight: 1 To 5 LEL: NA UEL: NA  
 OSHA PEL: NE ppm NE mg/M3 TWA ACGIH TLV: NE ppm NE mg/M3 TWA  
 LD50: NA LC50: NA V.P.(1)  
 Listed On(2) a: N b: N c: Y d: Y e: N f: N g: N h: N  
 CERCLA RQ1000LBS, NEW JERSEY AND PENN LABEL LAW  
 AMORPHOUS SILICA

\* CAS No.: 112926-00-8 Percent By Weight: 1 To 5 LEL: NA UEL: NA  
 OSHA PEL: NA ppm 6 mg/M3 TWA ACGIH TLV: NA ppm 10 mg/M3 TWA  
 LD50: NA LC50: NA V.P.(1) NA  
 Listed On(2) a: N b: N c: N d: Y e: N f: N g: N h: N  
 Contains no free crystalline silica.

## ETHYLENE AMINE

\* CAS No.: 111-40-0 Percent By Weight: 1 To 5 LEL: NA UEL: NA  
 OSHA PEL: NE ppm NE mg/M3 TWA ACGIH TLV: NE ppm NE mg/M3 TWA  
 LD50: 1000 mg/kg skin LC50: NA V.P.(1) .9  
 Listed On(2) a: N b: N c: N d: Y e: N f: N g: N h: N  
 LD50 2330 mg/kg oral

## TRIETHYLENETETRAMINE

\* CAS No.: 112-24-3 Percent By Weight: 1 To 5 LEL: NA UEL:  
 OSHA PEL: NA ppm NA mg/M3 TWA ACGIH TLV: NA ppm NA mg/M3 TWA  
 LD50: LC50: V.P.(1) <.001@68  
 Listed On(2) a: N b: N c: N d: Y e: N f: N g: N h: N  
 Can cause skin and eye burns.

\* Defined as hazardous per 29 CFR 1910.1200 \*\* Indicates Active Ingredient

(1) Vapor Pressure In mm Hg

(2) a = SARA 302/304 b = SARA 313 c = CERCLA 103(a) d = TSCA e = NTP Carcinogen f = IARC Carcinogen  
 g = California Prop. 65 h = OSHA Carcinogen

NOTE: Multi-component products when mixed will have the cumulative hazards of all components.

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Product No.: CP-83HT/MPH

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**SECTION III - HAZARD IDENTIFICATION**

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**EFFECTS OF OVEREXPOSURE - ACUTE:**

Breathing: Irritation of the respiratory tract; headache, nausea, dizziness.

Eye or Skin Contact: May cause eye and skin irritation.

Swallowing: No effects anticipated from ingestion incidental to normal use. Larger quantities may cause distress of the digestive tract and nausea.

**CHRONIC:** Crystalline silica has been classified as carcinogenic for humans (2A) by IARC. The excessive inhalation of crystalline silica is also a known cause of silicosis. (Risk depends on duration and level of exposure.) Other possible chronic effects are silicosis, cancer, scleroderma and tuberculosis. The main route of entry is inhalation of crystalline silica. Dry silica powder should be handled with great care. When the silica is mixed and wetted by the other components the risk of inhalation is greatly reduced.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** If you are allergic or have been sensitized to: epoxies, amines, isocyanates, detergents, or other chemicals see a physician prior to use. If none of these conditions exist and you use the product in accordance with the Safe Handling and Use Information (Sections VII and VIII) you should expect no mild medical conditions to be aggravated.

**ROUTE(S) OF ENTRY:** (X)SKIN (X)BREATHING (X)SWALLOWING

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**SECTION IV - FIRST AID MEASURES**

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**IF BREATHED:** Remove to fresh air.

**IF IN EYES:** In case of eye contact, flush with large amounts of water for at least 15 minutes. Get medical assistance.

**IF ON SKIN:** Remove with soap and water. Remove soiled clothing. Get medical assistance.

**IF SWALLOWED:** Drink 1 or 2 glasses of water to dilute. Do not induce vomiting. Consult physician immediately. Treat symptomatically. Never give anything by mouth to an unconscious person.

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**SECTION V - FIRE FIGHTING MEASURES**

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**FLAMMABILITY CLASSIFICATION:** FLASH POINT: NONE

**EXTINGUISHING MEDIA:** In case of fire, use CO<sub>2</sub>, Dry Chemical, Foam or other National Fire Protection Association (NFPA) approved method for treating a Class B Fire.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Due to pressure build-up, closed containers exposed to extreme heat may explode. **EXOTHERMIC REACTION:** When mixed with a second reactive component and kept in a mass (larger than 1/2 gallon or larger of mixed material) for longer than the potlife the material can exotherm to a very high temperature and decompose from the heat of the reaction. **DO NOT BREATHE ANY OF THE FUMES!**. See section on **HAZARDOUS**

**DECOMPOSITION:** During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES:** Summon professional firefighters. Use full protective equipment including self-contained breathing apparatus. Water spray may be ineffective. If water is used, fog nozzles are preferable. If exposed to fire or extreme heat, water should be used to cool closed containers and prevent pressure build-up or possible auto-ignition.

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**SECTION VI - ACCIDENTAL RELEASE MEASURES**

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Wash with water. Before attempting clean-up, refer to hazard caution information in other sections of this material safety data form. Contain spilled material and remove with inert absorbent. Store in closed container until properly disposed of.

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**SECTION VII - HANDLING AND STORAGE**

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Store below 110°F and keep from freezing. Keep container closed when not in use. Do not reuse empty containers.

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Product No.: CP-83HT/MPH

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SECTION VII - HANDLING AND STORAGE Con't.

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Keep out of reach of children.

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SECTION VIII - PERSONAL PROTECTION

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**RESPIRATORY PROTECTION:** All workers and bystanders must be protected from exposure above Section II limits. Avoid breathing vapors, spray mist or sanding dust. Application by brush, roller, squeegee, or trowel will result in the lowest release of hazardous materials. When spray applied in outdoor or open areas with unrestricted ventilation, and during sanding or grinding operations, use NIOSH/MSHA approved mechanical filter respirator to remove solid airborne particles of over spray or sanding dust. When used in restricted areas, wear NIOSH/MSHA approved chemical/mechanical filters designed to remove a combination of particulates and vapor. When used in confined areas, wear NIOSH/MSHA approved air supply respirators or hoods. Use NIOSH/MSHA approved respirators when flame cutting, welding, brazing and sanding material coated with this product. The fumes from these operations can be hazardous. Do not breath them. Always use adequate ventilation. Whenever using respirators refer to OSHA 1910.134 for proper respirator use and safety program. The applicator determines the type of area in which the application is being made (unrestricted, restricted, or confined). The best determination of respirator type to use in a particular application is to monitor for the hazardous materials during actual application. The applicator should contact a qualified safety engineer for proper selection of safety equipment based on the application conditions.

NIOSH has recommended that the permissible exposure limit for crystalline silica be changed to 50 micrograms respirable free silica per cubic meter of air (Time Weighted Average).

**PROTECTIVE GLOVES:** Do not get on skin. Solvent impermeable gloves to prevent contact are recommended.

**EYE PROTECTION:** Do not get in eyes. Safety eyewear with splash guards or side shields are recommended to prevent contact.

**OTHER PROTECTIVE EQUIPMENT:** Do not get on skin. Solvent impermeable clothing and boots to prevent contact are recommended.

**HYGIENIC PRACTICES:** Remove and wash soiled clothing before reuse. Wash hands before eating, smoking or using the washroom. Remove any contaminated clothing and clean before reuse. Shoes and boots if contaminated must be replaced.

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SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

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**WATER SOLUBILITY:** Generally not miscible and lighter than water.

**ODOR:** Mild, characteristic of solvents listed in SECTION II.

**WEIGHT PER GALLON:**15.06 Pounds

**PERCENT VOLATILE BY VOLUME:** 3.31

**EVAPORATION RATE:**( )Faster (X) Slower Than Ether

**BOILING RANGE:** NA

**VAPOR DENSITY:**(X)Heavier ( )Lighter Than Air -

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SECTION X - STABILITY AND REACTIVITY

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**STABILITY:**( )UNSTABLE (X)STABLE

**INCOMPATIBILITY:** Avoid contact with: mineral acids, amines, and strong bases.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May cause hazardous fumes when heated to decomposition or from mixed material that is kept in 1/2 gallon or larger mass longer than the potlife. The following represents a partial list: (from burning, heating, or reaction with other materials). Nitrogen oxide can react with water vapors to form corrosive nitric acid (TLV=2 ppm). Carbon Monoxide in a fire. Carbon Dioxide in a fire. Ammonia when heated. Nitrogen Oxides in a fire. Irritating and toxic fumes at elevated temperatures. Nitric acid in a fire. nitrosamines. Aldehydes. The oxides of nitrogen gases (except nitrous oxide) emitted on decomposition are highly toxic. An other unidentified phenolic and organic compounds and oxides of metals listed in Section II. Treat all of these fumes as hazardous and DO NOT BREATHE.

**HAZARDOUS POLYMERIZATION:**( )MAY OCCUR (X)WILL NOT OCCUR.

**MIXED PRODUCT SHOULD NOT BE KEPT IN QUANTITIES GREATER THAN 3 LBS WEIGHT (approx. 1 QUART VOLUME LONGER THAN 25 TO 35 MINUTES.** The product reacts quickly when in large mixed masses and develops heat quickly. It is possible for the mass to reach decomposition temperatures and give off dangerous gasses. ALWAYS pour the material out in thin thickness ( 1/4 inch or less) to avoid the mass reaction.

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SECTION XI - TOXICOLOGICAL INFORMATION

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No information available.

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SECTION XII - ECOLOGICAL INFORMATION

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No information available.

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SECTION XIII - DISPOSAL CONSIDERATIONS

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Dispose of in accordance with local, state and federal regulations. Incinerate only in approved facility. Do not incinerate closed containers.

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SECTION XIV - TRANSPORTATION INFORMATION

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DOT CLASS: PAINT,CORROSIVE,8,UN3066,PGIII

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SECTION XV - REGULATORY INFORMATION

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This product contains 0.23 pounds per gallon ( 28 grams/liter) volatile organic compounds. The VOC less water and exempt solvents is 0.23 lbs./gal. ( 28 gms./L.)

This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm. This product contains a chemical known to the state of California to cause cancer.

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SECTION XVI - OTHER INFORMATION

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HMIS RATING: (H)ealth 3\* (F)lammability 0 (R)eactivity 1

The information contained herein is based on data believed by BLOME INTERNATIONAL to be accurate, but we do not assume any liability for the accuracy of this information. We neither suggest nor guarantee that any hazards mentioned are the only ones which exist. Anyone intending to rely on any recommendation or to use any equipment, technique or material mentioned should also satisfy himself that he can meet all applicable safety and health standards.