

## MATERIAL SAFETY DATA SHEET

Product No.: CP-5L

SECTION I -XVI

## SECTION I - PRODUCT &amp; COMPANY IDENTIFICATION

BLOME CP-5 LIQUID

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: 10/24/06

## SECTION II - INGREDIENTS/HAZARD INFORMATION

WATER

CAS No.: 7732-18-5 Percent By Weight: 60 To 65 LEL: NA UEL:  
OSHA PEL: NA ppm NA mg/M3 TWA ACGIH TLV: NA ppm NA mg/M3 TWA  
LD50: LC50: V.P.(1) 17 @68  
Listed On(2) a: N b: N c: N d: Y e: N f: N g: N h: N

POTASSIUM SILICATE

\* CAS No.: 1312-76-1 Percent By Weight: 40 To 45 LEL: UEL:  
OSHA PEL: NE ppm mg/M3 TWA ACGIH TLV: NE ppm mg/M3 TWA  
LD50: NA LC50: NA V.P.(1)  
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: Prolonged and repeated breathing of spray mist and/or sanding dust over a period of years may cause dust disease of the lungs.

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. Some individuals may require protective creams if they are sensitive to chemicals. 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. However if the worker is exposed for an extended period the repeated washing of skin areas with soap and water or other cleaning solutions can remove a large part of the natural protective oils in the skin and require the worker to use a protective cream after each washing to replace the oils removed by washing.

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

## SECTION IV - FIRST AID MEASURES

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. Use a good quality hand lotion to add back natural protective oils to the skin.

Remove soiled clothing and laundry before reuse. Get medical assistance.

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**SECTION IV - FIRST AID MEASURES Con't.**

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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 CO2, 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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Do not store for long periods of time above 100°F or near fire or open flame. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep container closed when not in use. Do not transfer contents to bottles or other unlabelled containers. 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. Follow the crystalline silica respiratory protection paragraph when silica is present. 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 breathe 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.

VENTILATION: Use only with adequate ventilation. Provide general dilution or local exhaust ventilation in volume and pattern to keep air contaminant concentration below current applicable safety and health standards in the mixing, application and curing areas, and to remove sanding dusts of dried coating and decomposition product during welding and flame cutting on surfaces coated with this product. BYSTANDERS: Applicator should insure that fumes or spray mists do not drift into areas

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where bystanders are likely to be during the application period by keeping bystanders sufficiently away from the work area to insure no exposure and by using adequate ventilation when necessary. Caution should be used to insure that vapors do not collect in off hours. Anyone entering the work area should be properly protected and instructed. **EXPLOSION PROOF VENTILATION:** Only explosion proof ventilation equipment should be used to provide adequate ventilation unless the flash point of the mixed product is a minimum of 40 degrees F above the ambient temperature and the coated surface temperature. Do not apply to surfaces over 130 degrees F surface temperature.

**PROTECTIVE GLOVES:** Do not get on skin. Solvent impermeable gloves to prevent contact are recommended. Discard the gloves when they are penetrated by the liquid. Wash with soap and water and use a protective cream. Use new gloves.

**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. If the clothing is penetrated by the liquid remove the clothing and launder before reuse. Wash the effected area with soap and water and use a protective cream. If shoes or boots are penetrated **DO NOT REUSE.** (Feet tend to sweat and leach out chemicals from the saturated leather). Wash the effected area with soap and water and apply protective cream. Use new shoes and or boots. Depending on the severity and extent of the skin contact medical assistance maybe required. If this is a repeated contact seek medical advice before continuing to work with the products.

**HYGIENIC PRACTICES:** Remove and wash soiled clothing before reuse. It is very important to use clean clothing in areas where chaffing can occur. Like the neck and collar area and the wrist area. 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. Note that the washing of exposed areas on a regular and frequent basis can cause that area to become sensitive. The daily and frequent use of a protective cream in sensitive areas is recommended.

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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:** 9.50 Pounds                      **PERCENT VOLATILE BY VOLUME:** 68.44

**EVAPORATION RATE:**( )Faster (X) Slower Than Ether                      **BOILING RANGE:** NA

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

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SECTION XVI - OTHER INFORMATION

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HMIS RATING: (H)ealth 3 (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.