



MATERIAL SAFETY DATA SHEET

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Effective Date: 1/1/08 Supersedes: 6/11/07

Emergency #: 405-745-2070

SECTION I. IDENTIFICATION

PRODUCT NAME: CP-250™, CP-500™ PREMIUM, CP-500™ PRECAST

CHEMICAL NAME & SYNONYMS: Water Repellent / Mineral Spirits Based Mixture of Modified Siloxanes

PROCESSORS NAME: Chemical Products Industries, Inc., 7649 Southwest 34th Street,
Oklahoma City, OK 73179, (800) 624-4356

CAS #: Not Issued

CHEMICAL FAMILY: Petroleum Hydrocarbon Naphtha Solution of Modified Siloxanes

CHEMICAL FORMULA: C8 to C12 Naphtha solution of silicon, oxygen, carbon and hydrogen
containing chemical compounds with a basic structural unit of R₂SiO, where R is a hydrocarbon group.

SECTION II. COMPONENTS

INGREDIENTS

	<u>CAS NUMBER</u>	<u>% BY WT*</u>
- Siloxanes	Mixture	3-10 %
- Silica, Methanol and Other Trace Chemicals		< 0.2 %
- Mineral Spirits	8052-41-3	Balance

* The concentrations shown in the substance list are maximum or ceiling levels (weight %) to be used for calculations for regulations.

SECTION III. HEALTH HAZARDS

NFPA 704 CODES: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious and 4=Severe

<u>HEALTH (BLUE)</u>	<u>FLAMMABILITY (RED)</u>	<u>REACTIVITY (YELLOW)</u>	<u>CLOTHING</u>
NFPA: 0	NFPA: 2	NFPA: 1	NFPA:
HMIS: 1	HMIS: 2	HMIS: 1	HMIS: PP = B

ACUTE EFFECTS OF OVEREXPOSURE:

- INHALATION: Headache, nasal and respiratory irritation, nausea, drowsiness, breathlessness, fatigue, central nervous system depression, convulsions and loss of consciousness.
- EYE: Mildly irritating to the eyes.
- INGESTION: Aspiration hazard, headache, nausea, drowsiness, fatigue, pneumonitis, pulmonary edema, central nervous system depression, convulsions, and loss of consciousness.
- SKIN: Irritation. May aggravate existing dermatitis.

CHRONIC EFFECTS OF OVEREXPOSURE: Affects the central nervous system, eye and skin irritation.

OTHER HEALTH EFFECTS (MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE): May cause liver or kidney damage.

SECTION IV. FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES:

- INHALATION: Remove to fresh air. If breathing has stopped perform artificial respiration and get medical attention as soon as possible.
- EYE: Immediately flush eyes with running water for at least 15 minutes. If irritation or adverse symptoms develop, seek medical attention.
- INGESTION: Call a physician immediately. Do not induce vomiting unless instructed by physician.
- SKIN: Remove with clean cloth, wash with soap and water. If irritation or adverse symptoms continue, seek medical attention.

SECTION V. FIRE AND EXPLOSION HAZARD DATA

Caution **CP-250, CP-500 PREMIUM AND CP-500 PRECAST** are flammable/combustible liquids and are primarily a fire hazard. Keep away from heat and flame. Vapor can mix with air forming combustible mixtures. The solvent's flash point is 100 F with an autoignition temperature of 540 F. The lower flammability limit is 0.7 percent and the upper is 6 percent. Carbon dioxide, dry chemical and foam are recommended extinguishing media. Water will tend to spread fire. Heated closed containers may burst due to internal pressure. Cool containers with water. If leak or spill has not ignited, use water spray to disperse the vapor. Vapor is heavier than air and may travel along the ground to ignition sources.

When involved in a fire, they may emit vapors containing the siloxane containing materials, hydrocarbons, carbon oxides and silicon dioxide. These materials should be considered toxic and irritants. In addition, the silicon dioxide dust has a PEL of 6 mg/m³ and a ACGIH Total Dust of 10 mg/m³. It is possible that **CP-250, CP-500 PREMIUM, CP-500 PRECAST** can create SiO₂ dust levels greater than these PEL and ACGIH limits when decomposed in a fire or explosion. For these reasons, fire fighters should wear self-contained breathing apparatus operated in positive pressure demand mode and full protective clothing.

SECTION VI. SPILL, LEAK & DISPOSAL PROCEDURES

Notify emergency response personnel. Evacuate area and remove ignition sources. Contain spills immediately with inert material to prevent waterway entry. Transfer liquids and solid diking materials to suitable containers for recovery or disposal. Do not flush to sewer or open water.

SECTION VII. HANDLING AND STORAGE

Caution fire hazard. Avoid inhaling vapors and mists, and getting in eyes, on skin or on clothing. Handle and store in a well ventilated area. Maintain positive pressure in interior of occupied buildings during exterior application and close fresh air intakes in area of application. Wash hands and other contaminated areas thoroughly with soap and water after handling this product and before eating or smoking. Wash contaminated clothing thoroughly before reuse.

Store as OSHA Class II combustible liquid. Do not store with strong oxidizers. Storage temperature should be below 100°F. Drain equipment and flush with mineral spirits to clean. Shelf life is 18 months in original sealed container. The mineral spirits in the product will dissolve asphalt and similar organic materials.

SECTION VIII. PERSONAL PROTECTION

Appropriate personal protective equipment necessary to prevent contact should be worn. Ventilation that keeps the organic vapor concentration below 100 ppm is recommended. For concentrations up to 1,000 ppm, wear a NIOSH/MSHA approved respirator in accordance with OSHA standard 29 CFR 1910, 134 for organic vapors. Up to 5,000 ppm, wear a full-face organic vapor respirator or full face supplied air respirator. Greater than 5,000 ppm, fire fighting or unknown concentrations, wear self-contained breathing apparatus with positive pressure. Eye protection, resistant clothing and resistant boots should be worn where spills or splashing can occur. Chemical proof goggles are recommended. Gloves of impervious materials (nitrile, neoprene or other material resistant to naphtha) are recommended. Wash contaminated clothing before reuse. An eye wash station should be available.

SECTION IX. - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
APPEARANCE:	Clear
ODOR:	Mineral Spirit - Oderless
AVERAGE MOLECULAR WEIGHT:	140
BOILING POINT, 760 mm Hg:	300 to 360 F, 149 to 182 C
VAPOR PRESSURE, at 100 F:	0.3 psia
VAPOR DENSITY (Air = 1):	5
LIQUID DENSITY :	0.76 g/cc
SOLUBILITY IN WATER, by wt.:	Negligible
PERCENT VOLATILE BY VOLUME:	94 %
PERCENT VOLATILE BY WEIGHT:	< 94 %
LIQUID VISCOSITY:	1 centistoke at 100 F
EVAPORATION RATE (Ethyl Ether = 1)	8 times slower

SECTION X. STABILITY AND REACTIVITY

CP-250, CP-500 PREMIUM AND CP-500 PRECAST react with silica in concrete and masonry in the presence of ultraviolet light and moisture forming bonds with the substrate and produces methyl alcohol in normal use. The mineral spirits evaporate - avoid breathing the vapor. The siloxane content of the aqueous mixture will react with bases, acids and oxidizers producing heat, polymers and oxidation by-products. Vaporization of small quantities of solvent controls any heat released. Atomization, vaporization or combustion forms aerosols which can carry siloxane containing materials, carbon oxides and silicon dioxide into the atmosphere. Hazardous polymerization will not occur.

SECTION XI. TOXICOLOGICAL INFORMATION

The mineral spirits are combustible, and have acute and chronic health hazards. The OSHA PEL and ACGIH TLV is 100 ppm for the mineral spirits. The solvent vapors are harmful if inhaled and may cause delayed lung injury. In a confined area, the high vapor pressure of the solvent can generate harmful concentrations. Inhalation can cause nervous system depression. The solvent is an aspiration hazard if swallowed - it can enter the lungs and cause damage. The active ingredients, siloxanes, are known to be a mild eye and upper respiratory irritant. The OSHA PEL and ACGIH TLV has not been established for siloxanes; however, the low vapor pressure of siloxane containing materials in **CP-250™, CP-500™ PREMIUM AND CP-500™ PRECAST** should produce air concentrations below expected exposure limits. The LD50 for the siloxanes has not been determined, but should be relatively high based upon typical silicone toxicity. Do not take internally, avoid breathing mist and minimize eye and skin contact.

HEALTH HAZARD CATEGORIES: None of the product's ingredients are found on any lists of carcinogenic or banned chemical agents or materials generated by them.

SECTION XII. ECOLOGICAL INFORMATION

Do not allow **CP-250, CP-500 PREMIUM AND CP-500 PRECAST** to enter soil or drains.

SECTION XIII. DISPOSAL CONSIDERATIONS

Small quantities may be handled by evaporating the solvent in a hood and then the remaining material disposed in appropriate land fills. Disposal of large quantities should be through a licensed disposal company. Utilize a permitted hazardous waste disposal site or industrial waste disposal site as appropriate. Consider recycling or incineration.

SECTION XIV. TRANSPORT INFORMATION

DOT SHIPPING NAME (49CFR 172.101): PETROLEUM DISTILLATES n.o.s.(MINERAL SPIRITS, SILOXANE)
- DOT HAZARD CLASS: 3
- DOT ID# (49CFR 172.101): 1268
- PACKING GROUP III
- MARKING: Flammable Liquid
- LABEL: Flammable Liquid
- PLACARD: Yes
- HAZARD (29 CFR 1910.1200): Flammable

SECTION XV. REGULATORY INFORMATION**FEDERAL**

This mineral spirits contain up to 1 weight percent of each Xylene (CAS # 1330-20-7) and 1,2,4 Trimethylbenzene. This product is a combustible material under the OSHA Hazard Communication Standard (29 CFR 1910-1200). This product is hazardous under EPA regulations.

SECTION XVI. OTHER INFORMATION

APPROVED BY: _____
Floyd E. Farha, Ph.D.

DATE: 1/1/08
SUPERCEDES: 6/11/07

All terms and abbreviations have been defined in various government publications, or are standard chemical terms used by IUPAC.

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