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PHOENIX PRODUCTS CO. 55 CONTAINER DR  TERRYVILLE, CT 06786 (860) 589-7502	* PRODUCT NAME: CENTRAL CONCENTRATED POOL CLARIFIER	MATERIAL SAFETY DATA SHEET  2/25/02
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**SECTION I - IDENTIFICATION**

**CHEMICAL NAME & SYNONYMS:** Polyquarternary amine  
**TRADE NAME:** Pool Pruf Clarifier and Private Label ( Central Concentrated Pool Clarifier )  
**DESCRIPTION:** Pale yellow liquid with ammoniacal odor  
**HMIS HAZARD RATING:** This product contains no hazardous ingredients under OSHA's Hazard Communication Rule 29 CFR 1910.1200

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**SECTION II - PHYSICAL DATA**

<b>Boiling Point:</b> > 212°F	
<b>Specific Gravity (H<sub>2</sub>O=1):</b> 1.14	<b>pH:</b> 4.5 - 5.5
<b>Vapor Pressure:</b> 58 at 100° F	<b>Percent Volatile By Volume:</b> 50-80
<b>% Solubility in Water:</b> Complete	<b>Evaporation rate (water):</b> >1

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**SECTION III - FIRE AND EXPLOSION HAZARD DATA**

<b>Flash Point:</b> N/A	<b>Autoignition Temp:</b> N/A
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**Flammable Limits in Air % By Volume:** N/A  
**Extinguishing Media:** This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Use extinguishing media appropriate for surrounding fire.  
**Special Fire Fighting Procedures:** Use a NIOSH approved self containing breathing apparatus and protective clothing where this material is involved in a fire.  
**Unusual Fire and Explosion Hazards:** Oxides of nitrogen and carbon, hydrogen chloride gas, hydrogen cyanide, and phosgene may be found in the event of combustion.

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**SECTION IV - HEALTH HAZARD DATA**

**EFFECTS OF OVEREXPOSURE:**  
 A review fo available data does not identify any symptoms from exposure. Repeated or prolonged contact may cause skin or eye irritation.

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**SECTION V - EMERGENCY AND FIRST AID PROCEDURE**

**INHALATION:** Remove victim to fresh air.  
**SKIN:** Flush skin with water and then wash thoroughly.  
**EYE:** Flush eyes with water for at least 15 minutes. Consult a physician.  
**INGESTION:** Give water , Do not induce vomiting. Consult a physician.

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**SECTION VI - REACTIVITY DATA**

**Stability:** Stable.  
**Conditions to Avoid:** Strong oxidizers  
**Incompatibility (materials to avoid):** Strong oxidizers, chlorine, peroxide, nitric acid.  
**Hazardous Decomposition:** Oxides of nitrogen and carbon, hydrogen chloride gas, hydrogen cyanide and phosgene may be found in the event of combustion.  
**Hazardous Polymerization:** Will not occur.

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**SECTION VII - SPILL, LEAKAGE & DISPOSAL PROCEDURES**

**Steps to take if material leaks or spills:** Wearing appropriate personal protective equipment, contain spill, collect onto inert absorbent and place into suitable container. Spilled product may make floor slippery; spills should be cleaned up immediately to prevent falls.

**Waste disposal method:** This product does not meet the criteria of a hazardous waste as defined by RCRA 40 CFR 261. As a non-hazardous liquid waste, the recovered product should be solidified before disposal in an approved landfill.

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Polyquaternary amine

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**SECTION VIII - SPECIAL PROTECTION DATA**

**Ventilation:** General area ventilation is recommended.

**Respiratory Protection:** None required.

**Protective Gloves:** Chemical resistant gloves recommended as good industrial hygiene practice.

**Eye Protection:** Chemical splash resistant goggles recommended as good industrial hygiene practice.

**Other Equipment:** Eye bath and safety shower.

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**SECTION IX - SPECIAL PRECAUTIONS DATA**

**Handling and Storage:** Protect from freezing. Freezing may cause stratification. Keep out of streams and ponds, material is toxic to fish at high concentrations.

**Other:** Wash thoroughly after handling material.

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**SECTION X - TRANSPORTATION INFORMATION**

This product is not a hazardous material and is not regulated by the D.O.T.

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The information herein is given in good faith but no warranty, expressed or implied, is made.

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THE PHOENIX PRODUCTS COMPANY  
55 CONTAINER DR  
TERRYVILLE, CT 06786