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PHOENIX PRODUCTS CO.  
55 CONTAINER DR  
TERRYVILLE, CT 06786

PRODUCT NAME: PURACIL CHLORINE  
FREE SANITIZER(PHMB)

MATERIAL  
SAFETY DATA  
SHEET

(860) 589-7502

24HR Emergency Response Number (PERS) 1-800-633-8253

07/08/13AD

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**SECTION I - IDENTIFICATION**

**CHEMICAL NAME & SYNONYMS:** Poly (Hexamethylene Biguanide Hydrochloride)  
20 % Water Solution - PHMB

**TRADE NAME:** Puracil Chlorine Free Sanitizer

**DESCRIPTION:** Light blue liquid with a slight odor.

**CAS NO.** 32289-58-0

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**SECTION II - PHYSICAL DATA**

**Boiling Point:** 208°F

**Freezing Point:** 43°F

**Specific Gravity (H<sub>2</sub>O=1):** 1.04

pH 4.5 – 6.0

**% Volatile by Volume:** Near 100%

**Solubility in water:** 100%

**Evaporation Rate:** N/A

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**SECTION III – HAZARDOUS INGREDIENTS**

MATERIAL	CAS NO.	% BY WEIGHT	HAZARD DATA
PHBM	-	20 %	Irritant by prolonged contact With eyes or skin.
Hydrochloric Acid	7647-01	0.2%	None

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

**Flash Point:** N/A

**Autoignition Temp:** N/A

**Flammable Limits in Air % By Volume:** N/A

**Extinguishing Media:** Water fog, carbon dioxide, dry chemical or foam.

**Special Fire Fighting Procedures:** None.

**Unusual Fire and Explosion Hazards:** Non-flammable or explosive risks.

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**SECTION V - HEALTH HAZARD DATA**

**EFFECTS OF OVEREXPOSURE:**

**Inhalation:** None.

**Skin:** Prolong or repeat exposure may cause skin irritation.

**Eye:** Concentrated material induce severe irritation.

**Ingestion:** NA.

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

**INHALATION:** Remove to fresh air. If cough or other respiratory symptoms develop ,consult a physician.

**SKIN:** Flush contaminated skin with water. If chemical penetrates clothing, immediately remove clothing and flush skin in flowing water or shower. Get prompt medical attention if irritation occurs. Wash clothing before reuse.

**EYE:** Immediately flush with water, holding eyelids apart, for at least 15 minutes. Immediately consult a physician.

**INGESTION:** Give large amounts of water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician immediately.

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**SECTION VII - TOXICOLOGY**

**Oral LD50 (rat) (2.5 – 2.7 g/kg)**

**Skin Absorption LD50 (rabbit):** >2ml/kg

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20 % Water Solution - PHMB

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**SECTION VIII - REACTIVITY DATA**

**Stability:** Stable.

**Conditions to Avoid:** Temperatures below 43 Deg. F

**Incompatibility (materials to avoid):** Incompatible with Chlorine, Bromine, Ozone, Sodium Hydroxide, Copper, Silver and most metals.

**Hazardous Decomposition:** Combustion products of dry material: carbon dioxide, carbon monoxide, nitrogen oxide, ammonia, halogen, halogen acids, possible trace of carbonyl halide.

**Hazardous Polymerization:** Will not occur.

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

**Steps to take if material leaks or spills:** Large Spills: Wear skin, eye, and respiratory protection during clean up. Dam area to prevent spread of spill. Absorb on a neutral support (sand, sawdust etc.) and evacuate before washing spill with great quantity of water. SMALL SPILLS: Flush liquid with great quantity of water.

**Waste disposal method:** This product is not a hazardous waste under RCRA 40CFR 261. However, it is toxic to fish. Dispose of in accordance with all Federal, State and Local regulations.

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**SECTION X - SPECIAL PROTECTION DATA**

**Ventilation:** Local ventilation is adequate.

**Eye Protection:** Wear safety glasses.

**Respiratory Protection:** If needed use MSHA NIOH approved respiratory equipment with high efficiency filter combine with cartridge approved for ammonium and methylamine.

**Protective Gloves:** Use liquid and chemical resistant gloves.

**Other Equipment:** Wear long sleeved, body covering clothing.

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**SECTION XI - SPECIAL PRECAUTIONS DATA**

**Handling and Storage:** Storage temperature should be above 43 Deg F other wise product can become solid or precipitate. It is only limpid aftwer a long time of warming under sufficient stirring conditions.

**Tank Bulk Storage:** Polyethylene, polypropylene, vinyl Polychloride ---- Unsuitable materials-Metallic Materials( Copper, Iron, Zinc, Steels ...) and some rubbers. Clean tank with water.

**Other:** NONE

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**SECTION XII - TRANSPORTATION INFORMATION**

This material is not a hazardous material and is not regulated by DOT.

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

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