



MATERIAL SAFETY DATA SHEET

P-202 PRESERVATIVE

DATE: 08/23/2006

CAS NO: 15733-22-90

SUPERSEDES: 05/01/01

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: P-202 PRESERVATIVE
CHEMICAL NAME: 4-Chloro-3-methylphenol, sodium salt
SYNONYMS: sodium Parachlorometacresol CHEMICAL FAMILY:
MOLECULAR FORMULA: C₇H₇OO Na
MOLECULAR WEIGHT: 165.5

VERICHEM, Inc. 3499 Grand Avenue, Pittsburgh, PA 15225 (412-331-7299, 8:30 am to 5:00 pm).

EMERGENCY PHONE: For any emergency involving spill, leak, fire, exposure, or accident call

CHEMTREC: 1-800-424-9300. Outside the USA and Canada call: 703-527-3887.

2. COMPOSITION/INFORMATION ON INGREDIENTS

REGULATED COMPONENTS

COMPONENT	CAS NUMBER	PERCENT	WORKER EXPOSURE	REFERENCE
Sodium p-chloro-m-cresol	15733-22-90	71.000%	None Established	OSHA ACGIH
Sodium Hydroxide	1310-73-2	<2.0%	2.00 mg/m ³ TWA 2.00 mg/m ³ Ceiling	OSHA ACGIH

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER! CORROSIVE; Color: White to yellow; Form: Flakes; Odor: Slightly Phenolic; Causes respiratory tract burns; Inhalation may cause nausea or dizziness; Causes skin burns; Causes eye burns; Causes digestive tract burns; Irritating gases/fumes may be given off during burning or thermal decomposition.

POTENTIAL HEALTH EFFECTS

ROUTE OF ENTRY: Inhalation; Skin Contact; Skin Absorption; Eye Contact; Ingestion. **HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE: Acute Inhalation:** Based on pH, this product is expected to be sensation, dryness of throat, and runny nose. No specific data is available for this product. However, phenol derivatives may be absorbed from the lungs producing headache, dizziness, dimness of vision, ringing in the ears, irregular and rapid breathing, weak pulse, and weakness. Pulmonary edema (fluid in the lungs), effects on the kidneys, and damage to the liver, pancreas, and spleen may also occur. Some phenol derivatives cause methemoglobinemia, resulting in an inability of the blood to carry oxygen and cyanosis (blushing coloring of skin).]

Chronic Inhalation: Repeat exposure to phenol derivatives may cause vomiting, difficulty in swallowing, diarrhea, and anorexia. Headache, fainting, mental disturbances, dermatitis, and dark colored urine have also been reported to occur. Excessive overexposure may also affect the liver and kidneys. **Acute Skin Contact:** Based on animal toxicity testing (see Section 11) this product is corrosive to the skin with symptoms of itching, reddening, and burning.

Acute Eye Contact: Based on animal toxicity testing (see Section 11) this product is corrosive to the eye resulting in burning, reddening, and swelling of the eye and surrounding tissue and clouding of the cornea. **Acute Ingestion:** Based on animal toxicity testing (see Section 11), we would expect this product to be slightly toxic by ingestion. Ingestion of phenol derivatives may cause burning pain in the mouth and throat, lesions in the mouth, esophagus and stomach, abdominal pain vomiting, and bloody diarrhea. 1 Other effects as seen in acute inhalation may also occur.

Carcinogenicity: NTP Not listed IARC Not listed OSHA Not Regulated **Medical Conditions Aggravated By Exposure:** Persons with preexisting skin, eye, or respiratory tract disorders may be more susceptible to the effects of this product.

4. FIRST AID MEASURES

IF IN EYES: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Get medical attention. Remove contact lenses, if present, after the first 5 minute, then continue rinsing eye. Call a poison control center or doctor for treatment advice. **IF ON SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. **IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. **IF INHALED:** Move person to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to mouth. Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

5. FIRE FIGHTING MEASURES

FLASH POINT: 185°C (365°F)

AUTO IGNITION TEMPERATURE: Greater than 482°F (250°F) DIN 51794

EXTINGUISHING MEDIA: All extinguishing media are suitable.

SPECIAL FIREFIGHTING PROCEDURES: Firefighters should be equipped with Protective clothing and equipment, including a self-contained breathing apparatus to protect against toxic/hazardous fumes from combustion/decomposition products. Avoid dusting. Dust can form explosive mixtures with air.

6. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Utilize recommended protective clothing and equipment See Section 8). Spills should be taken up mechanically and placed into labeled, closable containers. Rinse residue with plenty of water. Contact with water can cause the formation of caustic material. Collect wash water for approved disposal.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE (MIN/MAX): Not established. **SHELF LIFE:** 1 Year. **SPECIAL SENSITIVITY:** Avoid exposure to light and moisture. **HANDLING AND STORAGE PRECAUTIONS:** Avoid breathing dust. Avoid getting in eyes and skin. Wash thoroughly after handling. Store in a dry place away from excessive heat. Reseal containers immediately after use. Store away from food and beverages. Adopt precautionary measures against the build-up of electrostatic charges. This product is corrosive to metal.

8. PERSONAL PROTECTION

EYE PROTECTION REQUIREMENTS: Chemical safety goggles. **SKIN PROTECTION REQUIREMENTS:** Rubber gloves and chemical resistant clothing to reduce skin exposure. Employees should wash their hands and face before eating, drinking, or using tobacco products. **VENTILATION REQUIREMENTS:** Local exhaust ventilation.

RESPIRATOR REQUIREMENTS: An air-purifying particulate/organic vapor cartridge respirator is required any time inhalation of dust or vapor is possible. Observe OSHA regulations for respirator use (29 CFR 1910.134)

ADDITIONAL PROTECTIVE MEASURES: Emergency showers and eye wash stations should be available. Educate and train employees on the safe use and handling of the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Flakes
COLOR:	White to Yellow
ODOR:	Slightly Phenolic
pH:	Approx. 13.5; Approx. 10.5-11.5 at Ig/I water
BOILING POINT:	Not applicable.
MELTING / FREEZING POINT:	Approx. 201.2°F (94°C)
SOLUBILITY IN WATER:	Approx. 580 g/l at 68°F (20°C); Approx. 700 g/l at 122°F (50°C)
SPECIFIC GRAVITY:	Approx. 1.36 g/cm ³ at 68 F (20 C)
BULK DENSITY:	Approx. 700 kg/m ³
VAPOR PRESSURE:	Approx. 1.6 x 10 ⁻⁴ hPa at 69.8°F (21 °C); Approx. 0.001 mbar at 212°F (100°C).

10. STABILITY AND REACTIVITY

STABILITY: This is a stable material
HAZARDOUS POLYMERIZATION: Will not occur
INCOMPATIBILITIES: Oxidizing and Reducing Agents
INSTABILITIES CONDITIONS: None known
DECOMPOSITION TEMPERATURE: Not Established
DECOMPOSITION PRODUCTS: In case of fire, CO, CO₂, hydrogen chloride, oxides of nitrogen and other hazard decomposition products.

11. TOXICOLOGY INFORMATION

ACUTE TOXICITY
ORAL LD50: Approx. 1610 mg/kg (Male Rat); Approx. 1360 mg/kg (Female Rat)
EYE EFFECTS: Corrosive (Rabbits).
SKIN EFFECTS: Corrosive (24 hour) (Rabbits).

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY: LC50: Approx. 5.7 mg/l (48 Hour) Brachydanio rerio
BIOLOGICAL OXYGEN DEMAND: Degradation greater than 90%; closed bottle test BOD determination.

13. DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD: Waste disposal should be in accordance with existing federal, state and local environmental regulation.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

	DOT Shipping Information	IMO Shipping Information	ICAO/IATA	TRANSPORT CANADA
Shipping Name	Corrosive solid, n.o.s.	Corrosive solid, n.o.s.	Corrosive solid, n.o.s.	Corrosive solid, n.o.s.
Hazard Class	8	8	8	8
Packing Group	N/A	N/A	N/A	N/A
Subsidiary Class				
UN/ID Number	1759	1759	1759	1759
Transport Label Required	Corrosive	Corrosive	Corrosive	Corrosive
Packing Instructions Passenger Cargo	N/A	N/A	N/A	N/A
Max. Net Quantity Passenger Cargo	N/A	N/A	N/A	N/A
D.O.T. Hazardous Substances	N/A	N/A	N/A	N/A
IMDG Page	N/A	N/A	N/A	N/A

15. REGULATORY INFORMATION

INVENTORY INFORMATION

OSHA STATUS: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200

TSCA STATUS: This product is exempt from TSCA Regulation under FIFRA Section 3 (2) (B) (ii) when used as a pesticide.

FIFRA STATUS: This product is registered with the EPA under FIFRA; EPA Registration Number 39967-22-67869

CERCLA REPORTABLE QUANTITY: Sodium Hydroxide (less than 2%) 1000 lbs.

SARA TITLE III:

Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: Immediate Health Hazard Section 313 Toxic Chemicals: None

RSCA STATUS: When discarded in its purchased form, this product meets the criteria of corrosivity, and should be managed as a hazardous waste (EPA Hazardous Waste Number D002) (40 CFR 261.2024).

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

COMPONENT NAME/CAS NUMBER	CONCENTRATION	STATE CODE
Water/7732-18-5	Greater than 1%	PA3,NJ4
Sodium Hydroxide/1310-73-2	Less than 2%	PA I,MA,NJI
Sodium p-chloro-m-cresol/15733-22-9	71.000%	PA3,NJ4

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