

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name SELtrol™ 112

Material Uses Closed System Water Treatment – Corrosion Inhibitor

In Case of Emergency

**Supplier /
Manufacturer** Southeastern Laboratories, Inc.
PO Box 10189 Goldsboro, NC 27532-0189
511 North Oak Forest Road Goldsboro, NC 27534

CHEMTREC 800-424-9300
Product/Technical 919-751-1001

Section 2. Composition, Information on Ingredients

<u>COMPONENTS</u>	<u>WEIGHT %</u>	<u>HAZARD</u>	<u>CAS NO.</u>	<u>ACGIH/TLV</u>	<u>OSHA/PEL</u>
Sodium hydroxide	< 2	Corrosive	1310-73-2	2 mg/M ³	2 mg/M ³
Sodium borate decahydrate	5 – 10	Irritant	1303-96-4	5 mg/M ³	NE
Sodium nitrite	20 – 30	Oxidizer, Mod. Toxic	7632-00-0	NE	NE
Phenolphthalein	< 0.4	Irritant, Antic. Carcinogen	77-09-8	NE	NE

Section 3. Physical and Chemical Properties

Physical State	Clear Liquid	Melting/Freezing Point	< -10 ⁰ F
Color	Pink to Red	Boiling/Condensation Point	NE
Odor	Negligible	Vapor Density	NE
pH	11 – 13	Vapor Pressure (mm Hg)	NE
Specific Gravity	approx. 1.25	Evaporation Rate	NE
Density	10.4 lbs/gal	Solubility	Complete

Section 4. Hazards Identification

Carcinogenic Effects Component: Phenolphthalein – Reasonably Anticipated Carcinogen (NTP); Possible Human Carcinogen (IARC – Group 2B).

Routes of Entry Eye – Skin – Respiratory

Effects of Overexposure

Eyes Highly irritating due to high alkalinity. Irritation, watering of eyes and possible damage to mucous membranes of eyes may occur.

Skin Irritating due to alkalinity. May cause irritation, itching and tingling, rash, possible burning and ulceration. Possible absorption through skin with toxic effects. See Systemic or Other Effects below.

Inhalation Irritation of nose, throat and eyes; coughing, sneezing and difficulty breathing. Toxic by inhalation. See Systemic or Other Effects below.

Ingestion Highly irritating. Causes irritation in mouth, throat and stomach. Can cause severe vomiting, diarrhea, shock and fatality.

Systemic or Headaches, tremor, drowsiness and convulsions. As a result of inhalation or ingestion, effects may

Other Effects include low blood pressure, headache, fainting, nausea, and weakness. Overexposure may also cause methemoglobinemia (reduced oxygen carrying capacity of the blood) with cyanosis (bluing of skin), possibly progressing to dizziness, uncoordination, shortness of breath, increased pulse rate and loss of consciousness.

Section 5. First Aid Measures

Eye Contact Flush immediately with plenty of cold water for at least 15 minutes with the eyes held open. Get prompt medical attention, but flush first!

Skin Contact Flush immediately with plenty of cold water for at least 15 minutes. Shower with soap and water. Launder contaminated clothing before reuse. Get medical attention if irritation persists.

Inhalation No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

Ingestion If victim is conscious, rinse mouth with cold water, then give large quantities of cold water to drink. Never give anything by mouth to an unconscious person. Call a physician or poison control center. **NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Absorption of this product into the body leads to the formation of methemoglobin which, in sufficient concentration, causes cyanosis. Since reversion of methemoglobin to hemoglobin occurs spontaneously after termination of exposure, moderate degrees of cyanosis need to be treated only by supportive measures such as bed rest and oxygen inhalation. Thorough cleansing of the entire contaminated area of the body including scalp and nails is of utmost importance. Cyanocobalamin (Vitamin B-12), 1 mg intramuscularly, will speed recovery. Intravenous fluids and blood transfusions may be indicated in very severe exposures.

Section 6. Fire Fighting Measures

Flammability of Product Will not burn under normal conditions.

Flash Point (°F) > 200 (COC)

Autoignition Temp. (°F) NA

Explosion Limits LEL (%): NA UEL (%): NA

Extinguishing Media Water.

Special Fire Fighting Procedures Avoid use of ammonium phosphate extinguishers. Isolate container in open air, if possible. Flood with water. Use approved, self-contained breathing apparatus.

Unusual Fire and Explosion Hazards Contains Oxidizer. High temperatures could cause violent reaction. Thermal decomposition products include fumes of toxic gases. Contact with other compound and organic materials may cause extremely violent reaction/combustion. May explode on contact with cyanides, ammonium salts, cellulose, lithium, potassium plus ammonia and sodium thiosulfate.

Section 7. Accidental Release Measures

Large Spill and Leak WARNING: KEEP SPILLS AND CLEAN-UP RESIDUALS OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER. Remove all sources of ignition. Wear protective equipment specified in Section 10. Use absorbent material to dike spilled product, prevent runoff and soak up liquid. Recover as much as possible for disposal. Place in clean, labeled suitable containers for disposal. Flush remaining material with plenty of water to sewer. As material is an oxidizer and may be contaminated, proper prompt disposal is necessary.

Special Sensitivity / Precautions Do not discharge this product or water containing this product into lakes, streams, ponds estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant

Discharge Elimination (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Avoid high temperatures, poor ventilation, high humidity/moisture, and any contamination. Keep containers tightly closed when not in use. Do not store in steel or stainless steel containers.

Section 8. Disposal Considerations

Waste Information Product wastes and containers present a hazard. Isolate containers in open, well-ventilated area. Flush small residues into sewer with larger quantities of water. If product cannot be disposed of in accordance with label instructions, incinerate or landfill in accordance with local, state and federal regulations. Untreated material may be classified as a RCRA hazardous waste with a characteristic of ignitability, hazardous waste number: D001. Do not put product or unrinsed product containers into trash or waste compactor. Contact with incompatible materials may cause a reaction or fire. See container label for additional waste and container disposal information.

Section 9. Handling and Storage

Handling Do not get in eyes, on skin, on clothing. Wear appropriate personal protective equipment when handling this material. Review all recommended handling procedures in the specific context of the intended use of this product and determine if they are appropriate. (Also see Section 10) Consult your supervisor for further instructions if necessary. Avoid contamination of food. Do not take internally. Wash thoroughly after handling.

Storage Stable for at least one (1) year when stored at ambient temperatures. Avoid high temperatures.

Section 10. Exposure Controls, Personal Protection

Engineering Controls Good general ventilation should be sufficient for most conditions. Use local exhaust ventilation with a minimum capture velocity of 150 ft/min. (45 m/min.) at the point of mist evolution. Eye wash and safety shower should be immediately available.

Personal Protection

Eyes Safety Goggles. Eyewear must be compatible with respiratory protection system employed.

Body Long sleeved, body covering clothing. Rubber Apron.

Respiratory A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Good general ventilation should be sufficient for most conditions. Wear a MSHA/NIOSH approved respirator suitable for concentrations encountered where exposure limits are exceeded. Air-purifying respirators should be equipped with organic vapor cartridges and dust and mist filters.

Hands Use Impervious Gloves such as Butyl Rubber or Nitrile. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water.

Section 11. Stability and Reactivity

Stability and Reactivity Stable under normal temperatures and pressures.

Incompatibility with Various Substances Moisture, solvents, organic material and inorganic reducing agents, ammonia, ammonium salts, nitrogen-bearing compounds, cyanides, ammonium salts, cellulose, lithium, sodium thiosulfate, phthaleic anhydrides, sodium disulfite, sodium thiocyanate and urea.

Hazardous Polymerization Will not occur.

Hazardous Decomposition Thermal decomposition may produce nitrogen oxides and sodium peroxide.

Section 12. Regulatory Information

SARA TITLE III/EPCRA (Sec 302) EHS Product does not contain applicable toxic chemical(s) for which routine annual release report may be required.

SARA TITLE III/EPCRA (Sec 304) CERCLA Product contains specific applicable CERCLA listed hazardous substance(s) for emergency release notification above *de minimis* concentrations. Sodium hydroxide, Sodium nitrite (see Section 2).

SARA TITLE III/EPCRA (Sec 313) Product contains applicable toxic chemical(s) above *de minimis* concentrations for which routine annual release report may be required. Sodium nitrite (see Section 2).

SARA TITLE III/EPCRA (Sec 311/312) Hazard category(s): Immediate health hazard. Chronic health hazard. Reactive hazard.

TSCA Chemical component(s) listed or in compliance with TSCA inventory.

EPA Registration: NA

Section 13. Other Information

Hazardous Material Information System (U.S.A.)

Health	*	2
Flammability		0
Physical Hazard		1
Personal Protection		C
Goggles		

Personal Protective Equipment (PPE) designation provided as a guideline only. User shall make final PPE decision based upon use in specific situation.

Target Organs Eyes – Skin – Respiratory

Physical Hazards Oxidizer

Personal Protection C – Goggles (Safety Goggles, Gloves, Apron)

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Validated By R.Gates

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Comments: Comprehensive product review.

Phone Number 919-751-1001

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