

**SPARTAN CHEMICAL COMPANY, INC.  
WHMIS MATERIAL SAFETY DATA SHEET**

**SECTION I: PRODUCT INFORMATION**

**PRODUCT IDENTIFIER:**

**CLOTHESLINE FRESH CHLORINE BLEACH [4]**

**PRODUCT USE:** Chlorine bleach for laundry

**MANUFACTURER'S NAME & ADDRESS**  
Spartan Chemical Company, Inc.  
1110 Spartan Drive, Maumee, OH 43537 USA

**MEDICAL EMERGENCY TELEPHONE**  
888/314-6171 (24 Hours)

**PRODUCT INFORMATION:** 800/537-8990

**SECTION II: HAZARDOUS INGREDIENTS**

CAS REGISTRY NO.	% W	CHEMICAL NAME(S)	TLV			LD50	LC50
			TWA mg/m <sup>3</sup>	STEL mg/m <sup>3</sup>	Ceiling mg/m <sup>3</sup>		
7681-52-9	10-15	Sodium hypochlorite	-----	Not Established	-----	Not available	Not available
1310-73-2	1-5	Sodium hydroxide	2	---	---	Not available	Not available

**SECTION III: PHYSICAL DATA**

<b>BOILING POINT</b> ~ 104°C (220°F)	<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1)</b> 1.07-1.26	<b>PERCENT SOLID BY WEIGHT</b> 13-15%
<b>VAPOUR PRESSURE</b> Not established	<b>EVAPORATION RATE (butyl acetate = 1)</b> < 1	<b>FREEZING POINT</b> Not available
<b>VAPOUR DENSITY (AIR = 1)</b> Not established	<b>SOLUBILITY IN WATER</b> Complete	<b>ODOUR THRESHOLD</b> Not available
<b>pH</b> 12.5-13.5	<b>APPEARANCE AND ODOUR</b> Greenish-yellow liquid, chlorine odor	<b>PHYSICAL STATE</b> GAS__ LIQUID <u>X</u> SOLID_____
<b>COEFFICIENT OF WATER/OIL DISTRIBUTION</b> Not available		

**SECTION IV: FIRE & EXPLOSION DATA**

<b>FLASH POINT</b> > 104 °C (220°F)	<b>METHOD USED</b> ASTM - D56	<b>FLAMMABLE LIMITS</b> Not available
<b>EXTINGUISHING MEDIA</b> Water, CO2 or dry chemical	<b>CONDITIONS OF FLAMMABILITY</b> Not applicable	<b>AUTO-IGNITION TEMPERATURE</b> Not applicable
<b>HAZARDOUS COMBUSTION PRODUCTS</b> Not established		<b>EXPLOSION DATA</b> Not applicable

**SPECIAL FIRE FIGHTING PROCEDURES**

Use self-contained breathing apparatus for maximum respiratory protection. Water may be used to cool containers if not ruptured or leaking. Avoid inhalation of fumes and body contact. Stay up-wind and out of low lying areas.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

In fire, this material may decompose and produce irritating vapors, chlorine gas and oxides of sodium. When heated or in contact with many metals, this product gives off oxygen which may increase fire hazard. Contain run-off water to prevent environmental damage. Toxic fumes may be liberated by contact with acid or heat. Vigorous reactions can occur with oxidizable materials and organics.

## SECTION V: REACTIVITY DATA

**STABILITY:** STABLE X      **CONDITIONS OF INSTABILITY**      **CONDITIONS OF REACTIVITY**  
Not established      Not established

**INCOMPATIBILITY (MATERIALS TO AVOID)** Strong acids and strong oxidizing agents

**HAZARDOUS DECOMPOSITION PRODUCTS** Sodium chlorate, hypochlorous acid, chlorine gas and hydrochloric acid

## SECTION VI: TOXICOLOGICAL PROPERTIES

**PRIMARY ROUTES OF ENTRY:** Eye Contact, Skin Contact, Ingestion, Inhalation,  
**EXPOSURE LIMIT** Not established for mixture.

### EFFECTS OF ACUTE EXPOSURE:

**EYE CONTACT** Causes severe eye damage and chemical burns. Permanent eye damage is possible.

**SKIN CONTACT** Causes severe skin damage or irritation with symptoms of pain, redness and chemical burns.

**Harmful contact may not cause immediate pain.**

**INGESTION** Harmful if swallowed. Causes damage to esophagus and mucous membranes with symptoms of pain, nausea, vomiting and diarrhea. Aspiration of product into the lungs may occur during ingestion or vomiting resulting in lung injury.

**INHALATION** This product is irritating to the nose, mouth, throat and lungs. It may also cause burns to the respiratory tract with the product of lung edema which can result in shortness of breath, wheezing, choking, chest pain and impairment of lung function. Inhalation of high concentrations of mist can result in permanent lung damage.

### EFFECTS OF CHRONIC EXPOSURE

None known

### IRRITANCY OF PRODUCT

CORROSIVE (see above)

### SENSITIZATION TO PRODUCT

Not available

### CARCINOGENICITY

No

### REPRODUCTIVE TOXICITY

Not available

### TERATOGENICITY

Not available

### MUTAGENICITY

Not available

### SYNERGISTIC PRODUCTS

Not available

## SECTION VII: PREVENTIVE MEASURE

### PERSONAL PROTECTIVE EQUIPMENT / ENGINEERING CONTROLS

Wear rubber or other impervious gloves and splash goggles with face shield when handling product. Use of rubber aprons, rubber boots and other protective clothing is recommended where contact with body may occur. Eyewash stations and washing facilities should be readily accessible in areas where undiluted product is handled. See 29 CFR 1910.132-138 for further guidance. Provide good general ventilation. Local exhaust ventilation may be necessary for some operations. Respiratory protection not expected to be required with normal use. However, if exposure limits are exceeded (see Section II), or if respiratory irritation occurs, the use of a NIOSH approved respirator suitable for the conditions of use and the chemicals in Section II should be considered. (N95 or greater with an acid gas cartridge recommended) Or use a self contained breathing apparatus. Product decomposes slowly to produce chlorine gas.

**LEAK AND SPILL PROCEDURE** Contain large spills and transfer to appropriate container for reclamation or disposal. Absorb remaining material or small spills with an inert material and dispose in accordance with regulations.

**WASTE DISPOSAL METHOD** Assure conformance with regulations.

**HANDLING PROCEDURES** Do not get in eyes, on skin or clothing. Avoid breathing product vapors or mist. Use with adequate ventilation. Do not swallow. Wash thoroughly after handling. Contact with ammonia and amine-based compounds can generate toxic chloramine compounds. Contact with acids can release dangerous chlorine gas. Empty containers retain product residue. Continue to obey safety and handling precautions with empty containers.

**STORAGE REQUIREMENTS** Keep container closed when not in use. Store in a cool, dry place. Keep product temperature below 29° C and above 0° C. Do not store near acids, heat or oxidizable materials or organics. Keep out of reach of children.

**SPECIAL SHIPPING INFORMATION** Corrosive liquids, n.o.s., 8, UN 1760, III, (contains sodium hydroxide)

## SECTION VIII: FIRST AID MEASURES

**EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue washing the eye. Call a poison control center or doctor for further treatment advice.

**SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice. Wash contaminated clothing before reuse.

**INGESTION:** Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**INHALATION:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

## SECTION IX: PREPARATION INFORMATION

### CLOTHESLINE FRESH CHLORINE BLEACH [4]

**DATE OF PREPARATION:** October 23, 2007

**SUPERCEDES:** First WHMIS Edition

**PREPARED BY** Ronald T. Cook / Manager, Regulatory Affairs / Spartan Chemical Company, Inc.

**TELEPHONE NUMBER** 800/537-8990