

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

**SECTION I: PRODUCT INFORMATION**

**PRODUCT IDENTIFIER:  
CAUSTIC CLEANER FP**

**PRODUCT USE:** High alkaline, low foam general purpose cleaner for food processing

**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>		
1310-73-2	30-40	Sodium hydroxide	---	---	2	Not available	Not available
31138-65-5	1-5	Sodium glucoheptonate	---	---	---	Not available	Not available
1344-09-8	1-5	Sodium silicate	---	---	---	Not available	Not available

**SECTION III: PHYSICAL DATA**

<b>BOILING POINT</b> 124°C (255°F)	<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1)</b> 1.4-1.5	<b>PERCENT SOLID BY WEIGHT</b> 40-50
<b>VAPOUR PRESSURE</b> Not established	<b>EVAPORATION RATE</b> (butyl acetate = 1) < 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> 14	<b>APPEARANCE AND ODOUR</b> Dark brown liquid, pungent odor	<b>PHYSICAL STATE</b> GAS <u>  </u> LIQUID <u>X</u> SOLID <u>  </u>
<b>COEFFICIENT OF WATER/OIL DISTRIBUTION</b> Not available		

**SECTION IV: FIRE & EXPLOSION DATA**

<b>FLASH POINT</b> > 124°C (255°F)	<b>METHOD USED</b> ASTM - D56	<b>FLAMMABLE LIMITS</b> Not available
<b>EXTINGUISHING MEDIA</b> Carbon dioxide, dry chemical, water	<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
<b>SPECIAL FIRE FIGHTING PROCEDURES</b> Use self-contained breathing apparatus for maximum respiratory protection. Water may be used to cool containers if not ruptured or leaking.		
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b> Combustion products are toxic. Contact with aluminum or other reactive metals may release hydrogen gas. Heat is generated when mixed with water. This reaction may be violent.		

## SECTION V: REACTIVITY DATA

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

**INCOMPATIBILITY (MATERIALS TO AVOID)** Acids, oxidizing agents, chlorinated solvents, reactive metals such as aluminum, zinc and tin.

**HAZARDOUS DECOMPOSITION PRODUCTS** None known

## SECTION VI: TOXICOLOGICAL PROPERTIES

**PRIMARY ROUTES OF ENTRY:** Eye Contact, Skin Contact, Ingestion, Inhalation, Skin Absorption

**EXPOSURE LIMIT** Not established for mixture.

**EFFECTS OF ACUTE EXPOSURE:**

**EYE CONTACT** Causes severe eye damage and chemical burns. Eye contact may cause blindness.

**INGESTION** Harmful or fatal if swallowed. Causes damage or chemical burns to esophagus and mucous membranes with symptoms of pain, nausea, vomiting and diarrhea.

**INHALATION** Breathing product vapor or mist may cause irritation or damage of the respiratory tract with symptoms of nasal discomfort and discharge with chest pain and coughing.

**SKIN CONTACT** Causes severe skin damage or irritation with symptoms of pain, redness and chemical burns. Harmful contact may not cause immediate pain.

**EFFECTS OF CHRONIC EXPOSURE**  
None known

<b>IRRITANCY OF PRODUCT</b>	<b>SENSITIZATION TO PRODUCT</b>	<b>CARCINOGENICITY</b>	
Corrosive	Not available	No	
<b>REPRODUCTIVE TOXICITY</b>	<b>TERATOGENICITY</b>	<b>MUTAGENICITY</b>	<b>SYNERGISTIC PRODUCTS</b>
Not available	Not available	Not available	Not available

## SECTION VII: PREVENTIVE MEASURE

**PERSONAL PROTECTIVE EQUIPMENT / ENGINEERING CONTROLS**  
Wear rubber or neoprene gloves and splash goggles. If indicated by conditions of use, impervious apron, face shield and other protective equipment should be considered in order to minimize contact with this product. Eyewash stations and washing facilities should be readily accessible. Provide good general ventilation. Local exhaust ventilation may be necessary for some operations. If exposure limits (see Section II) can not be maintained by ventilation, use of a NIOSH approved respirator suitable for the conditions of use and chemicals in Section II should be considered.

**LEAK AND SPILL PROCEDURE:** Dike and contain spills with inert material (sand, earth, commercial absorbent, etc.) and transfer to containers for disposal. Keep spill out of storm sewers and waterways.

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

**HANDLING PROCEDURES:** Do not get in eyes, on skin or clothing. Do not breathe product vapor or mist. Do not swallow. Use with adequate ventilation. Wash thoroughly after handling.

**STORAGE REQUIREMENTS:** Keep container closed when not in use. Do not freeze. Do not store above 49°C (120°F). Do not mix with other chemicals. Keep out of reach of children.

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

## SECTION VIII: FIRST AID MEASURES

**EYES:** Immediately flush eyes with water for at least 15 minutes. Remove contact lenses. Get medical attention.

**SKIN:** Remove contaminated clothing and shoes. Flush skin with water for at least 15 minutes. Get medical attention. Wash contaminated clothing before reuse. Destroy contaminated shoes.

**INGESTION:** Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting. Drink one or two glasses of water to dilute product. Do not give anything by mouth to an unconscious person.

**INHALATION:** In case of respiratory irritation, move person to fresh air. Get medical attention immediately.

## SECTION IX: PREPARATION INFORMATION

**CAUSTIC CLEANER FP**

**DATE OF PREPARATION:** March 20, 2014

**SUPERCEDES:** March 7, 2011

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

**TELEPHONE NUMBER** 800/537-8990