

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

SECTION I: PRODUCT INFORMATION

PRODUCT IDENTIFIER:

SPARCLEAN METAL SAFE MACHINE DISH DETERGENT [58]

PRODUCT USE: Machine dish wash detergent

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 ³	STEL mg/m ³	Ceiling mg/m ³		
1344-09-8	10-15	Sodium silicate	---	Not Established	---	Not available	Not available
1310-58-3	5-10	Potassium hydroxide	---	---	2 (ACGIH)	Not available	Not available
Proprietary	5-10	Acrylic phosphonate	---	Not Established	---	Not available	Not available

SECTION III: PHYSICAL DATA

BOILING POINT 100°C (212°F)	SPECIFIC GRAVITY (H₂O = 1) 1.235	PERCENT SOLID BY WEIGHT 25-30
VAPOUR PRESSURE Not established	EVAPORATION RATE (butyl acetate = 1) < 1	FREEZING POINT Not available
VAPOUR DENSITY (AIR = 1) Not established	SOLUBILITY IN WATER Complete	ODOUR THRESHOLD Not available
pH 13-14	APPEARANCE AND ODOUR Clear liquid, mild odor	PHYSICAL STATE GAS__ LIQUID <u>X</u> SOLID_____
COEFFICIENT OF WATER/OIL DISTRIBUTION Not available		

SECTION IV: FIRE & EXPLOSION DATA

FLASH POINT > 100°C (212°F)	METHOD USED ASTM - D56	FLAMMABLE LIMITS Not available
EXTINGUISHING MEDIA Carbon dioxide, dry chemical, water	CONDITIONS OF FLAMMABILITY Not applicable	AUTO-IGNITION TEMPERATURE Not applicable
HAZARDOUS COMBUSTION PRODUCTS Not established		EXPLOSION DATA 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.		
UNUSUAL FIRE AND EXPLOSION HAZARDS Combustion products are toxic. Heat is generated when mixed with water.		

SECTION V: REACTIVITY DATA

STABILITY: STABLE <u>X</u>	CONDITIONS OF INSTABILITY Not established	CONDITIONS OF REACTIVITY Not established
INCOMPATIBILITY (MATERIALS TO AVOID) Strong acids and strong oxidizing agents		
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, carbon dioxide		

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. 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 mist may cause irritation or damage of the respiratory tract with symptoms of nasal discomfort 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

IRRITANCY OF PRODUCT

Corrosive

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. 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. (N95 filter recommended)

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 mist. Do not swallow. Use with adequate ventilation. Wash thoroughly after handling. Do not use or mix with other cleaning products.

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: UN 1760, Corrosive liquids, n.o.s., (contains potassium hydroxide), 8, II

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

SPARCLEAN METAL SAFE MACHINE DISH DETERGENT [58]

DATE OF PREPARATION: October 20, 2015

SUPERCEDES: November 5, 2012

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

TELEPHONE NUMBER 800/537-8990