

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

SECTION I: PRODUCT INFORMATION

PRODUCT IDENTIFIER
M.L.D. BOWL CLEANSE

PRODUCT USE: Phosphoric Acid-Based Toilet Bowl Cleaner

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		
7664-38-2	20-30	Phosphoric acid	1	3 (NIOSH)	----	Not available	Not available

SECTION III: PHYSICAL DATA

BOILING POINT 99 °C (210°F)	SPECIFIC GRAVITY (H₂O = 1) 1.14	PERCENT SOLID BY WEIGHT < 1
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 < 1.0	APPEARANCE AND ODOUR Opaque pink liquid, floral fragrance	PHYSICAL STATE GAS__ LIQUID <u>X</u> SOLID_____
COEFFICIENT OF WATER/OIL DISTRIBUTION Not available		

SECTION IV: FIRE & EXPLOSION DATA

FLASH POINT >99 °C (210°F)	METHOD USED ASTM - D56	FLAMMABLE LIMITS Not established
EXTINGUISHING MEDIA Product does not support combustion. Not applicable	CONDITIONS OF FLAMMABILITY	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. Acid action on most metals may release hydrogen, an explosive gas.		

SECTION V: REACTIVITY DATA

STABILITY: STABLE X

CONDITIONS OF INSTABILITY

Not established

CONDITIONS OF REACTIVITY

Not established

INCOMPATIBILITY (MATERIALS TO AVOID) Concentrated alkali, hypochlorites, (chlorine bleach), ammonia, cyanides and oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS Oxides of phosphorus, Carbon dioxide, carbon monoxide

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 irreversible eye damage with symptoms such as chemical burns, pain, redness, swelling of the conjunctiva, tissue destruction and possible permanent corneal damage

SKIN CONTACT: Causes severe skin damage with symptoms such as chemical burns, pain, redness and tissue destruction.

INGESTION: Harmful if swallowed with symptoms such as damage or chemical burns 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: Breathing product mist may cause respiratory irritation with symptoms of nasal discomfort, discharge and coughing.

EFFECTS OF CHRONIC EXPOSURE

None known

IRRITANCY OF PRODUCT

Corrosive to eyes and skin.

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. Provide good general ventilation. Local exhaust ventilation may be necessary for some operations. If respiratory irritation can not be prevented 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 and transfer to containers for recovery or disposal. Rinse area with water and flush to sanitary sewer. Keep spill out of storm sewers and waterways.

WASTE DISPOSAL METHOD: Assure conformance with applicable regulations.

HANDLING PROCEDURES: Do not get in eyes, on skin, or on clothing. Do not swallow. Avoid breathing product mist. Wash thoroughly after handling. Add product to water only. Do not mix with hypochlorite-type bleach, ammonia or other household chemicals as hazardous vapors or gases may be produced.

STORAGE REQUIREMENTS: Keep container closed when not in use. Do not store above 43°C (110°F). Do not store or dispense into metal containers, especially aluminum. Keep out of reach of children.

SPECIAL SHIPPING INFORMATION: UN 1760, Corrosive liquids, n.o.s., (contains phosphoric acid), 8, III

SECTION VIII: FIRST AID MEASURES

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

SKIN: Remove contaminated clothing. Flush skin immediately with plenty of water for at least 15 minutes. Get medical attention if irritation persists. Wash contaminated clothing before reuse.

INGESTION: Get immediate medical attention. Do not induce vomiting. Drink one or two glasses of water to dilute product. Get medical attention. Do not give anything by mouth to an unconscious person.

INHALATION: In case of respiratory irritation or dizziness, move person to fresh air. Get medical attention if irritation persists.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION IX: PREPARATION INFORMATION

M.L.D. BOWL CLEANSE

DATE OF PREPARATION: May 1, 2016

SUPERCEDES: June 1, 2013

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

TELEPHONE NUMBER: 800/537-8990