

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

SECTION I: PRODUCT INFORMATION

PRODUCT IDENTIFIER:
CX3 BIO-ASSIST

PRODUCT USE: Extraction cleaner for carpets

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		
5324-84-5	1-5	Sodium 1-octanesulfonate	---	Not Established	---	Not available	Not available
18996-35-5	1-5	Sodium citrate	---	Not Established	---	Not available	Not available
Proprietary	NA	Bacterial spores (Bacillus species)	---	Not Established	---	Not available	Not available

SECTION III: PHYSICAL DATA

BOILING POINT 93°C (200°F)	SPECIFIC GRAVITY (H₂O = 1) 1.025	PERCENT SOLID BY WEIGHT 5-10
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 8.0-9.0	APPEARANCE AND ODOUR Translucent green liquid with floral fragrance	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 Product does not support combustion. Use extinguishing media appropriate for surrounding fire.		

SECTION V: REACTIVITY DATA

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

INCOMPATIBILITY (MATERIALS TO AVOID) Strong acids, oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS 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 May cause eye irritation with symptoms of pain, redness, swelling and tearing.
SKIN CONTACT May cause skin irritation with symptoms of pain, redness and swelling.
INGESTION May be harmful if swallowed. Symptoms may include pain, nausea, vomiting and diarrhea.
INHALATION Breathing product mist may cause respiratory irritation. Symptoms may include coughing and difficulty breathing. This product contains living bacterial spores. The bacteria in this product may cause infection if introduced into an open wound, broken skin or mucous membrane in sufficient quantity. May affect people with asthma.
EFFECTS OF CHRONIC EXPOSURE
Individuals with impaired immune systems or function may be especially susceptible to infection by microorganisms including the bacteria used in this product.

IRRITANCY OF PRODUCT May cause eye irritation. May cause skin irritation.	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 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: Small spills of one gallon or less may be flushed with plenty of water to sanitary sewer system (If permitted by local sewer regulations). Dike and contain large spills with inert material and transfer liquid to containers for recovery or 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. Avoid breathing product 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: Not regulated. Shipping Description: Non-Hazardous Products

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. Wash skin thoroughly with soap and water. Apply a topical antiseptic agent to open wounds or broken skin. Get medical attention if irritation persists. Wash contaminated clothing before reuse.

INGESTION: 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, move person to fresh air. Get medical attention if irritation persists.

SECTION IX: PREPARATION INFORMATION

CX3 BIO-ASSIST

DATE OF PREPARATION June 1, 2015

SUPERCEDES: June 8, 2012

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

TELEPHONE NUMBER 800/537-8990