



Spartan Chemical Company, Inc.

Material Safety Data Sheet

SECTION I: PRODUCT INFORMATION

Product Name or Number (as it appears on label):

CX3 BIO-ASSIST

Product Number: 3110

Product Division:

Janitorial**Spartan Chemical Company, Inc.****1110 Spartan Drive****Maumee OH 43537**Product/Technical
Information: **1-(800)-537-8990**Medical Emergency: **1-(888)-314-6171 (24 hours)**Chemical Leak/Spill
Emergency: **CHEMTREC 1-(800) 424-9300 (24 hours)**

Shipping Description:	Cleaning compounds, liquid, n.o.s.		
NFPA Ratings:		HMIS Ratings:	
Health:	1- Slight	Health:	1- Slight
Fire:	0 - Minimal	Fire:	0 - Minimal
Reactivity:	0 - Minimal	Reactivity:	0 - Minimal
		Pers. Prot. Equip.:	See Section VIII

SECTION II: HAZARDOUS INGREDIENTS

(Listed when present at 1% or greater, carcinogens at 0.1% or greater) All component chemicals are listed or exempted from listing on the "TSCA Inventory" of chemical substances maintained by the U.S. Environmental Protection Agency.

Chemical Name(s)	% W	CAS Registry No.	Table Z- 1 - A			NTP, IARC or OSHA Carcinogen
			TWA mg/m ³	STEL mg/m ³	CEILING mg/m ³	
Sodium 1-octanesulfonate	1-5	5324-84-5	Not Established	Not Established	Not Established	No
Sodium citrate	1-5	18996-35-5	Not Established	Not Established	Not Established	No
Bacterial spores (Bacillus species)	NA	NA	Not Established	Not Established	Not Established	No

SECTION III: PHYSICAL DATA

Boiling Point:	200 °F	Vapor Pressure:	Not determined
Vapor Density (AIR = 1):	Unknown	Solubility in Water:	Complete
pH:	8.0-9.0	Specific Gravity (H ₂ O=1):	1.025
Evaporation Rate (but.ace.=1):	<1	Percent Solid by Weight:	7-8
Physical State:	Liquid		
Appearance & Odor:	Translucent green liquid with floral fragrance		

SECTION IV: FIRE & EXPLOSIVE HAZARD DATA

Flash Point:	> 212°F	Method Used:	ASTM-D56
Flammable Limits:	Not Established	Flame Extension:	N/A
Extinguishing Media:	Product does not support combustion. Use extinguishing media appropriate for surrounding fire.		
Special Fire Fighting Procedures:	Wear NIOSH approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.		
Unusual Fire & Explosive Hazards:	Combustion products are toxic.		

SECTION V: HEALTH HAZARD DATA

Threshold Limit Value:	Not Established	Primary Routes of Entry:	Inhalation, Skin Contact, Eyes and Oral
Effects of Overexposure-Conditions to Avoid:	<p>May cause eye and skin irritation. Symptoms may include pain, redness and swelling.</p> <p>May be harmful if swallowed. Symptoms may include abdominal pain and diarrhea.</p> <p>Inhalation of product mist may cause respiratory irritation.</p> <p>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. Do not use this product in patient healthcare areas.</p> <p>Avoid contact with eyes and skin. Do not swallow. Avoid breathing product mist.</p> <p>Avoid contact with open wounds, broken skin or mucous membranes. Wash thoroughly after handling.</p>		
Conditions Aggravated by Use:	Use of this product may aggravate preexisting skin; eye and respiratory disorders including asthma and dermatitis. Individuals with impaired immune systems or function may be especially susceptible to infection by microorganisms including the bacteria used in this product.		

Emergency & First Aid Procedures:

Eyes:	Flush eyes with plenty of 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 VI: REACTIVITY DATA

Stability:	Stable	Incompatible Materials:	Strong oxidizers
Hazardous Decomposition Products:	Sulfur dioxide and hydrogen sulfide, CO, CO2	Hazardous Polymerization:	Will Not Occur

SECTION VII: SPILL OR LEAK PROCEDURES

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Steps to be Taken in Case Material is Released or Spilled:	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 disposal. Keep spill out of storm sewers and waterways.
Waste Disposal Method:	Dispose of in compliance with all federal, state and local laws and regulations.

▼ **SECTION VIII: SPECIAL PROTECTION INFORMATION**

Respiratory Protection:	Not required with normal usage.
Ventilation:	Provide good general ventilation. Local exhaust ventilation may be necessary for some operations.
Protective Gloves(Specify Type):	Rubber or other impervious gloves are recommended.
Eye Protection(Specify Type):	Splash goggles are recommended.
Other Protective Equipment:	See 29 CFR 1910.132-138 for further guidance.

▼ **SECTION IX: SPECIAL PRECAUTIONS**

Precautions; Handling & Storing:	Keep from freezing. Do not mix with other chemicals.
Other Precautions:	Keep out of reach of children.

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CX3 BIO-ASSIST

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Date:

Title: Manager, Regulatory Affairs
Supercedes: 05/04/2000

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