

BIO-SANITIZER®
DISINFECTING TABLETS
EPA Registration 63243-1



SPECIAL INSTRUCTIONS

Bio-Sanitizer disinfecting tablets are a strong oxidizing agent and highly corrosive. Contact with other chlorine compounds, oil or petroleum products is extremely dangerous -fire or explosion could result. Improper use of this product may cause personal injury or property damage. Tablets may be fatal if swallowed and tablet dust is irritating to the eyes, nose and throat. Keep out of the reach of children. Store only in the original container in a cool, dry, well ventilated area. It is a violation of Federal Law to use Bio-Sanitizer disinfecting tablets in a manner inconsistent with its labeling. Read the product container label and Bio-Sanitizer disinfecting tablet Safety and Tablet Properties and Usage, instructions before use. Always wear rubber gloves and either safety goggles or face shield when handling Bio-Sanitizer tablets.

PRODUCT STORAGE

Bio-Sanitizer disinfecting tablets are a strong and highly corrosive oxidizing agent. Tablets should be stored in a cool, dry, well ventilated area, away from heat or flame. Stock should be rotated on a first-in, first-out basis. Store Bio-Sanitizer disinfecting tablets in their original container with the lid tightly closed. Store tablets away from combustible materials such as paper, petroleum products, chemicals, rags or cardboard. In case of contamination or decomposition, do not reseal container and notify fire department immediately. If possible, isolate container in open air or a well-ventilated area. Flood tablets and container with large volumes of water to dissolve all materials, then discard container. Do not reuse the empty container.

SAFETY INSTRUCTIONS

Before handling Bio-Sanitizer tablets, carefully read the product container label and the Product Storage, Tablet Handling, Caution and First Aid sections of these instructions. Do not add Bio-Sanitizer tablets to a feed tube containing the remnants of any other product, particularly oil and petroleum products or swimming pool chlorine - fire or explosion could result. Do not contaminate food or feed during the use, storage or disposal of Bio-Sanitizer tablets or the cleaning of chemical feed equipment. Always wear rubber gloves and either safety goggles or face shield when handling Bio-Sanitizer tablets or working with any tablet chlorinator or chemical feed tube. Avoid contact with skin, eyes, mouth, respiratory system or clothing. Keep only in tightly closed original container. Store only in a cool, dry, well ventilated area. Avoid moisture contamination.

TABLET HANDLING

It is a violation of Federal Law to use Bio-Sanitizer disinfecting tablets in a manner inconsistent with the container label. It is a violation of Federal Law to sell the tablets in a package other than the original container and in the quantity shown on the label. Read the entire Bio-Sanitizer tablet container label and these instructions carefully before handling this product. Mix only with water using clean, dry utensils. Do not add Bio-Sanitizer disinfecting tablets to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire, explosion and/or the release of toxic gas.

CAUTION

Bio-Sanitizer disinfecting tablets are highly corrosive. Contact with other chlorine products or reducing agents, such as pool chemicals or Bio-Neutralizer dechlorination tablets, is extremely dangerous -fire or explosion could result. Keep out of the reach of children. Avoid contact with skin, eyes, mouth, respiratory system or clothing -failure to do so will cause irritation on contact. Always wear rubber gloves and either safety goggles or a face shield when handling this product. Avoid breathing tablet dust; it is irritating to the eyes, nose and throat and potentially fatal. Wash contaminated clothing before reuse.

IN CASE OF EMERGENCY INVOLVING THIS PRODUCT, PHONE (304) 843-1300.

FIRST AID INSTRUCTIONS

If contact with skin occurs, wash with water for 15 minutes. If irritation occurs, seek medical attention. If eye contact occurs, flush with water for at least 15 minutes. Get immediate medical treatment.

If swallowed, promptly drink large quantities of water. DO NOT induce vomiting. Avoid alcohol. Call physician immediately. If inhaled, move victim to fresh air and get immediate medical attention.

In case of fire, immediately evacuate the area and notify the fire department.



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MATERIAL SAFETY DATA SHEET

BIO-SANITIZER® DISINFECTING TABLETS

EMERGENCY TELEPHONE: (304) 843-1300

DATE PREPARED: JANUARY 2002

I. PRODUCT IDENTIFICATION

TRADE NAME	Bio-Sanitizer®	IDENTIFICATION NUMBER	UN 2880
CHEMICAL NAME	Calcium Hypochlorite, Hydrated, Tablets	PACKING GROUP	II
CHEMICAL ABSTRACT SERVICE NO.	CAS #7778-54-3	REPORTABLE QUANTITY	10 pounds/4.5 Kg.
CHEMICAL FAMILY	Hypochlorite	HMIS/NFPA RATING	3/0/1
FORMULA	Ca (OCl) ₂ • H ₂ O	I.M.O. DESCRIPTION	Calcium Hypochlorite, Hydrated, Class 5.1, UN 2880, Packing Group II, RQ 10, IMDG Code Page 5138
U.S. DOT SHIPPING NAME	Calcium Hypochlorite, Hydrated		
U.S. DOT HAZARD CLASS	5.1 Oxidizer		

II. INGREDIENTS

CALCIUM HYPOCHLORITE (70% Available Chlorine)	73%	INERT-INGREDIENTS (Includes 5.5-10% Moisture)	27%
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III. PHYSICAL DATA

BOILING POINT AT 760 mm Hg	Decomposes at 180° C	SOLUBILITY IN H ₂ O; % BY WEIGHT	217 g/l at 27° C
SPECIFIC GRAVITY OF TABLET	1.94 (H ₂ O = 1)	APPROXIMATE BULK DENSITY	61 lbs./ft ³
pH OF SOLUTION	Alkaline	HEAT OF SOLUTION	Slightly Exothermic
APPEARANCE AND ODOR	White with chlorine odor	VOLUME % VOLATILE	Not Applicable

IV. FIRE AND EXPLOSION DATA

FLASH POINT	None		
EXTINGUISHING MEDIA	Water Only - Smothering Ineffective		
SPECIAL FIRE FIGHTING PROCEDURES	NIOSH-Approved, positive pressure, self-contained breathing apparatus with full face piece for possible exposure to hazardous gas.		
UNUSUAL FIRE & EXPLOSION HAZARD	Decomposes rapidly at 180° C, generating oxygen and heat. Containers may rupture. (Do <u>NOT</u> use dry extinguishers containing ammonium compounds).		

V. HEALTH HAZARD DATA

ACUTE TOXICITY DATA (ANIMAL)		CLASSIFICATION	
LC 50 INHALATION	(Rat) No Mortality at 3.5 mg/l (1 hour)	INHALATION	Irritating
LD 50 ORAL	850 mg/kg (Rat)	SKIN	Irritating
LD 50 DERMAL	(Rabbit) > 1000 mg/kg	EYE	Corrosive
LC 50 AQUATIC	TLM 96 Hr.: 10-1 ppm	INGESTION	Toxic
CAUSES BURNS TO EYES AND SKIN		AQUATIC	Highly Toxic
CHRONIC TOXICITY	There are no known or reported effects from repeated exposure.		

VI. EFFECTS OF OVEREXPOSURE

PERMISSIBLE	No permissible exposure limits have been established by OSHA.		
ACUTE			
INHALATION	Inhalation of this material is irritating to the nose, mouth, throat, and lungs. It may also cause burns to the respiratory tract with the production of lung edema which can result in shortness of breath, wheezing, choking, chest pain, and impairment of lung function. Inhalation of high concentrations can result in permanent lung damage. Chronic (repeated) inhalation exposure may cause impairment of lung function and permanent lung damage.		
EYE/SKIN	Severe irritation and/or burns can occur following eye exposure. Contact may cause impairment of vision and corneal damage. Contact with skin may cause severe irritation, burns, or tissue destruction.		
INGESTION	Irritation and/or burns can occur to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding, and/or tissue ulceration.		
CHRONIC	There are no known or reported effects from chronic exposure.		

VII. EMERGENCY AND FIRST AID PROCEDURES

INHALATION	Remove to fresh air. Give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Seek medical attention immediately.
EYE CONTACT	Immediately flush with large amounts of water for fifteen (15) minutes, rinsing eye thoroughly. Get medical attention.
SKIN CONTACT	Wash with plenty of soap and water for fifteen (15) minutes. Remove contaminated clothing and wash before reuse. If skin irritation occurs, get medical attention.
INGESTION	If <u>conscious</u> , drink a large quantity of water and common vegetable oil. Do <u>NOT</u> induce vomiting. Take immediately to hospital. Avoid alcohol. If <u>unconscious</u> , or in convulsions, seek medical attention immediately. Do not give anything by mouth to an unconscious person.

VIII. REACTIVITY DATA

STABILITY	Unstable.
CONDITIONS TO AVOID	Any form of contamination or excessive heat above 177° C.
INCOMPATIBILITY	Acids, combustible materials, organics, reducing agents, flammables, beverages, compounds containing nitrogen, dry powder fire extinguishers (containing mono-ammonium phosphate).
HAZARDOUS DECOMPOSITION PRODUCTS	Acids or ammonia contamination will release toxic gas. Excessive heat may cause decomposition and release chlorine gas.

IX. SPILL AND LEAK PROCEDURE

USE EXTREME CAUTION IN HANDLING SPILLED MATERIAL. CONTAMINATION WITH ORGANIC OR COMBUSTIBLE MATERIAL MAY CAUSE FIRE OR VIOLENT DECOMPOSITION. IF FIRE OR DECOMPOSITION OCCURS IN AREA OF SPILL, IMMEDIATELY DOUSE WITH PLENTY OF WATER. OTHERWISE, SWEEP UP ALL VISIBLE MATERIAL USING A CLEAN, DRY SHOVEL AND BROOM AND DISSOLVE MATERIAL IN WATER. CARE MUST BE TAKEN WHEN USING OR DISPOSING OF CHEMICAL MATERIALS TO PREVENT ENVIRONMENTAL CONTAMINATION. IT IS YOUR DUTY TO DISPOSE OF THE CHEMICAL MATERIALS AND/OR THEIR CONTAINERS IN ACCORDANCE WITH THE CLEAN AIR ACT, THE CLEAN WATER ACT AND RCRA REGULATIONS.

X. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION	If conditions are dusty, use NIOSH respirator with acid gas cartridge and dust pre-filter.
VENTILATION	Not required unless dusty conditions are encountered. Store and use in a well ventilated area.
EYE PROTECTION	Chemical safety goggles.
GLOVES	Natural or synthetic rubber.
OTHER PROTECTIVE EQUIPMENT	Boots, aprons, or chemical suits as required to prevent skin contact.

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