

APR 27 1994



MATERIAL SAFETY DATA SHEET

SECTION 1 - MANUFACTURER OR SUPPLIER DATA

MSDS NUMBER

US9111Z 277Z XX

MANUFACTURER'S NAME & MAILING ADDRESS U S Chemical - A DIVISION OF HYDRITE CHEMICAL CO. 316 Hart Street Watertown, Wisconsin 53094 USA	PREPARED BY D. E. Kenas	SIGNATURE <i>David E. Kenas</i> E
EMERGENCY TELEPHONE NO. (24 HOUR SERVICE) Medical Emergency ONLY: 1-800-228-5635 Ext. 075	TITLE Quality Assurance Manager	DATE 1-1-91
PRODUCT INFORMATION TELEPHONE NO. (8-5 CST) Product Information: 1-800-558-9566		

SECTION 2 - IDENTITY OF MATERIAL

PRODUCT NAME USC CHLOR-BAC			
PRODUCT DESCRIPTION Chlorine Sanitizer (Oxidizing Agent) [EPA Registered]		FORMULA Proprietary Blend	CHEMICAL FAMILY N.A.
REGULATED IDENTIFICATION	DOT PROPER SHIPPING NAME Not Regulated by D.O.T.		HAZARD CLASS N.A.
	SHIPPING ID NUMBER N.A.		

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT N.A.	SPECIFIC GRAVITY (H ₂ O = 1) N.A.	PHYSICAL FORM Granular Powder	COLOR White
VAPOR PRESSURE (mm Hg) N.A.	MELTING POINT N.A.	SOLUBILITY IN WATER Moderate	SCENT None Added
VAPOR DENSITY (AIR = 1) N.A.	EVAPORATION RATE (BUTYL ACETATE = 1) N.A.	pH 2500 ppm SOLUTION 8.6	pH CONCENTRATE N.A.
OTHER Non-Scented, however, a slight chlorine odor is present.			

SECTION 4 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (CHEMICAL NAME; COMMON NAME)	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	PERCENT
Sodium Dichloro-S-Triazinetrione, Dihydrate [CAS Registry Number 51580-86-0]	.5 ppm TWA as chlorine	1 ppm TWA as chlorine	1 ppm STEL as chlorine (ACGIH/OSHA)	30.0
This product contains no other ingredient considered hazardous according to the criteria of 29 CFR 1910.1200, OSHA. However, this product contains chemicals which may be subject to reporting requirements according to the criteria of SARA Title III, 40 CFR, Part 370, Section 311 and Section 312.				
NFPA RATING: Health-2/Flammability-0/Reactivity-0 HMIS RATING: Health-2/Flammability-0/Reactivity-1				
CARCINOGENICITY: This product does not contain any known carcinogens or anticipated carcinogens according to the criteria of the NTP Annual Report on Carcinogens, IARC Monographs, and OSHA 29 CFR 1910, Subpart Z.				

(CONTINUED ON REVERSE SIDE)

SECTION 5 - SAFE USAGE DATA

PROTECTIVE EQUIPMENT TYPES	EYES Safety glasses, safety goggles, and an eye-wash station.	
	RESPIRATORY Dust mask for handling greater than 25 lbs.	GLOVES Rubber (Latex).
	OTHER Wear full-cover protective clothing to prevent repeated or prolonged contact.	
VENTILATION	GENERAL MECHANICAL Satisfactory. Maintain adequate ventilation. Keep levels below recommended TLV.	
	LOCAL EXHAUST Not ordinarily needed. Avoid inhalation of dust containing this product.	
PRECAUTIONS	HANDLING & STORAGE Follow all label directions. Instruct personnel about proper use, hazards, precautions, and first-aid measures. Avoid inhalation, ingestion and contact with skin and eyes.	
	Rotate stock regularly. Handle carefully to avoid damaging container. Keep container closed when not in use. Use clean, dry utensils to avoid contamination. Keep out of children's reach.	

SECTION 6 - HEALTH HAZARD DATA

EFFECTS OF EXPOSURE	INHALATION Inhalation of dust or mist containing this product may cause irritation to nose, throat, and mucous membranes, tissue damage, and pulmonary irritation.									
	INGESTION May cause nausea, vomiting, and tissue damage to mouth, esophagus, stomach, and to other tissues with which contact is made.									
	SKIN & EYES SKIN: Contact may cause mild to severe irritation, depending on degree of exposure. EYES: Contact may cause tearing, severe irritation, burning, vision loss, and blindness.									
	ACUTE & CHRONIC ACUTE: Irritant to skin and eyes. Prolonged eye contact may cause permanent damage. CHRONIC: None Known.									
ROUTES OF ENTRY	<table border="0"> <tr> <td>INGESTION-X</td> <td>SKIN ABSORPTION-</td> <td>TARGET ORGANS</td> </tr> <tr> <td>SKIN-X</td> <td>EYES-X</td> <td>Eyes.</td> </tr> <tr> <td></td> <td>INHALATION-X</td> <td></td> </tr> </table>	INGESTION-X	SKIN ABSORPTION-	TARGET ORGANS	SKIN-X	EYES-X	Eyes.		INHALATION-X	
INGESTION-X	SKIN ABSORPTION-	TARGET ORGANS								
SKIN-X	EYES-X	Eyes.								
	INHALATION-X									

SECTION 7 - PHYSICAL HAZARD DATA

FLAMMABILITY	LEL = N.A. UEL = N.A.	FLASH POINT = N.A.	METHOD USED = N.A.
STABILITY	STABLE	X	CONDITIONS TO AVOID Avoid mixing with any other cleaning product. Mix only with water. Moisture contamination may liberate irritating and hazardous chlorine gases.
	UNSTABLE		HAZARDOUS DECOMPOSITION PRODUCTS Warning! Mixing with incompatible materials may produce hydrazine, chlorine, hydrogen and other toxic and irritating fumes.
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	N.A.
INCOMPATIBILITY	MATERIALS TO AVOID Avoid contact with water on concentrated product in the container. Also avoid contact with easily oxidizable organic material, ammonia, urea, reducing agents, calcium hypochlorite and alkalis.		

SECTION 8 - EMERGENCY RESPONSE DATA

FIRE	EXTINGUISHING MEDIA Wear a NIOSH-Approved self-contained breathing apparatus. Use water spray to knock down vapors.
	SPECIAL PROCEDURES Use NIOSH certified gas mask with canister for chlorine. If possible, remove container to open air and flood with water.
	UNUSUAL HAZARDS Damp or decomposing material may be shock sensitive and explode. Decomposition products - chlorine, cyanogen chloride, carbon dioxide, ammonia, and nitrogen trichloride.
FIRST AID MEASURES	INGESTION: Do not induce vomiting. If patient is conscious and can swallow, administer milk or water. SKIN: Remove contaminated clothes, flood with water for 15 minutes. EYES: Flood with lukewarm (not hot) water poured from a large glass 2 or 3 inches from eyes. Remove contacts. Have patient blink as much as possible while flooding the eyes. Continue for 15 minutes. INHALATION: Move victim to fresh air. Give artificial respiration if patient is not breathing. ADMINISTER FIRST AID TREATMENT AS STATED ABOVE, THEN CALL 1-800-228-5635 Ext 075 OR CONTACT PHYSICIAN FOR FURTHER MEDICAL INSTRUCTIONS.
	STEPS TO BE TAKEN Use proper protective equipment. Carefully sweep up and shovel into dry containers without raising dust. Covers containers and move containers out of spill area.
SPILLS	Flush area with water and follow with normal clean-up procedures.
RO N.A.	WASTE DISPOSAL METHOD Comply with all federal, state, and local regulations. Consult state and local authorities for restrictions on disposal of chemical waste.

THE DATA IN THIS MATERIAL SAFETY DATA SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND DOES NOT RELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR PROCESS. THE DATA CONTAINED IS BELIEVED TO BE ACCURATE. HOWEVER, SINCE USE CONDITIONS VARY AND ARE OUTSIDE OUR CONTROL, U S CHEMICAL • A DIVISION OF HYDRITE CHEMICAL CO. MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, AND ASSUMES NO LIABILITY FOR FAILURE TO FOLLOW PRODUCT USE DIRECTIONS AND SAFETY PRECAUTIONS.