

Vital-Oxide

Disinfectant Sanitizer

SECTION I - IDENTIFICATION

PRODUCT NAME: Vital-Oxide
 PRODUCT TYPE: Disinfectant Sanitizer

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:

CHEMICAL FAMILY:	Aqueous Oxidant	CONCENTRATION RANGE
CHEMICAL NAMES		
Stabilized Chlorine Dioxide:		<Less than 1%
n-Alkyl(60% C14, 30% C16, 5% C12, 5% C18)		
Dimethyl Benzyl Ammonium Chloride:		<Less than 1%
n-Alkyl(68%C12,32%C14) Dimethyl		
Ethylbenzyl Ammonium Chloride:		<Less than 1%

No active ingredients are present at concentrations greater than 1% by weight. Contains items withheld in accordance with OSHA 29 CFR XVII-1910.1200 Section (i) "Trade Secrets". At these levels none of the ingredients are known to pose any hazards to human health. The liquid has a very mild ozone or chlorine-like odor. It is a water-based system with boiling and freezing points near those of water. At the concentrations used in this product no hazardous circumstances are anticipated if the product is used as directed.

WHMIS CLASSIFICATION:Not Controlled

SECTION III - HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS:None
 SPECIFIC HAZARDS:.....Moderate eye irritation may occur

SECTION IV - PHYSICAL AND CHEMICAL DATA

BOILING RANGE:212 °F
 SPECIFIC GRAVITY (WATER = 1):.....1.05
 VAPOR PRESSURE:Not Available
 PERCENT VOLATILES BY VOLUME:100%
 VAPOR DENSITY:.....Not Available
 EVAPORATION RATE:.....Less than Ether
 WATER SOLUBILITY:100%
 pH:Approx. 8.5
 APPEARANCE:Colorless liquid
 ODOR:.....Mild-Fresh

SECTION V - FIRE AND EXPLOSION DATA

FLAMMABILITY LIMITS:.....Non Flammable
 FLASHPOINT:.....N/A
 EXTINGUISHING MEDIA:N/A

SECTION VI - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE ACUTE:

BreathingAlbino rats exposed to a respirable aerosol made from a solution of stabilized chlorine dioxide at levels up to 2.09 mg/l for one hour resulted in no deaths or gross pathology.
 EYE CONTACT:Moderate ocular irritant
 SKIN CONTACT:Modified Draize test on albino rabbits - no dermal irritation on prolonged contact.
 SWALLOWING:.....Acute oral toxicity in albino rats: LD50 is greater than >5,000 mg/kg.;
 CHRONIC:At the dilutions used in this formulation, chlorine dioxide was found to be non-toxic.

SECTION VII - FIRST AID

IF IN EYES:.....Flush with water. If irritation persists consult an MD.
 IF SWALLOWED:.....Give large amounts of water.

SECTION VIII - REACTION DATA

STABILITY:.....Stable
 CONDITIONS TO AVOID:Contact with strong acids
 INCOMPATIBILITY (MATERIALS TO AVOID):..Strong acids
 HAZARDOUS DECOMPOSITION PRODUCTS:..Thermal or other decomposition may yield chlorine dioxide or chlorine.
 HAZARDOUS POLYMERIZATION:Will not occur

SECTION IX - SPILL PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:No special clean-up measures are required for the consumer product. To avoid the possibility of "bleaching" the spill should be absorbed with paper towels, and the area rinsed with clean water.
 WASTE DISPOSAL METHOD:No special precautions are required for the consumer product.
 VOLATILE ORGANIC COMPOUNDS (VOC):.....None

SECTION X - SPECIAL PRECAUTIONS

RESPIRATORY PROTECTION - None required for normal use. If consumer product accidentally contacts strong acids in restricted ventilation area, avoid breathing the vapors, and allow adequate time for the vapors to disperse before re-entering the restricted area.
 VENTILATION.....Use in adequately ventilated areas.
 PROTECTIVE GLOVESNot required for consumer product.
 EYE PROTECTIONNot required for consumer product.
 OTHER PROTECTIONNot applicable.
 BULK HANDLING AND STORAGE PRECAUTIONS...Keep away from heat, and strong acids. Do not smoke. Prevent build-up of vapors by maintaining continuous flow of fresh air. Do not store above 120oF or near fire of open flame. Store large quantities in buildings that comply with OSHA 1910.106. Keep container closed when not in use. Do not transfer contents to bottles or other unlabelled containers. Do not reuse empty containers. Keep out of reach of children.

Questions or Comments:

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