
SECTION I IDENTIFICATION

Product Name: VITAL-OXIDE

MANUFACTURER/DISTRIBUTOR

Vital Technologies
P.O. Box 2026
Hobe Sound, FL 33475

PHONE NUMBERS

Product Information	(772) 545-9505	available 9am-5pm EST
Medical Emergency	(800) 222-1222	available 24 hrs.

SECTION II – COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL FAMILY:

Aqueous Oxidant

CHEMICAL NAMES

CONCENTRATION RANGE

CAS #

Stabilized Chlorine Dioxide

<Less than 1%

10049-04-4

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: In rare cases mild eye irritation may occur

SECTION IV - PHYSICAL 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/EXPLOSION HAZARDS

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

SECTION VI - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE ACUTE: **Breathing** - Albino rats exposed to a respirable aerosol made from a solution of stabilized chlorine dioxide at levels up to 2.8 mg/l for one hour resulted in no deaths or gross pathology. **Eye Contact** - Mild ocular irritant. **Skin Contact** - Modified Draize test on albino rabbits - no dermal irritation on prolonged contact. **Swallowing** - Acute oral toxicity in albino rats: LD₅₀ = >1,500 mg/kg.; Category III. **CHRONIC:** At the dilutions used in this formulation, chlorine dioxide was found to be non-toxic.

FIRST AID MEASURES: **IF IN EYES** - Flush immediately with water. If irritation persists consult a physician. **IF SWALLOWED** - Give large amounts of water and consult a physician.

SECTION VII- 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 VIII - 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 IX - 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 GLOVES - Not required for consumer product.

EYE PROTECTION - Not required for consumer product.

OTHER PROTECTION - Not 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 120°F or near fire or 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.