MATERIAL SAFETY DATA SHEET — 16 Sections

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

			OOMI / III IDEI	THIOMION	
Product Identifier				[WHMIS Classification	on]
VITAL OXIDE				Not Controlled	
Product Use					
Disinfectant Cleaner					
Manufacturer's Name			Supplier's Name		
Vital Technologies, Inc.			Vital Technologies, Inc.		
Street Address					
PO Box 9932			Street Address		
FO BOX 9932			PO Box 9932		
City		State	City		Stat
West Palm Beach		FL	West Palm Beach		e
Postal Code	Emergency Tele	phone	Postal Code	Emorganay Talay	L
33419	800 222-122		33419	Emergency Telep	onone
00410	000 222-122	2	33419	800 222-1222 241	
Date MSDS Prepared		MCDC Dranger d D.		(561) 848-1717 9-5	EST
		MSDS Prepared By		Phone Number	
June 16, 2010		Safety Compliance		(561) 848-1717	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL FAMILY: Aqueous Oxidant			T	
Hazardous Ingredients: No active ingredients are present at				
concentrations greater than 1% by weight. 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.				LC 50 of
	%	CAS Number	LD 50 of Ingredient	Ingredient
Oxychlorine Compounds	< than 1%	mixture	greater than >5,000	N/A
All-1(cog grapes grapes grapes grapes)			mg/kg	
n-Alkyl(60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium Chloride	< than 1%	68391-01-5	greater than >5,000 mg/kg	N/A
n-Alkyl(68%C12,32%C14) dimethyl ethylbenzyl ammonium chloride	< than 1%	85409-23-0	greater than >5,000 mg/kg	N/A

SECTION 3 — HAZARDS IDENTIFICATION

Ingestion: Agute and toxicity in albina rate. I.D. in greater than 25,000 miles
Ingestion: Acute oral toxicity in albino rats: LD ₅₀ is greater than >5,000 mg/kg Category 4
Skin Absorption: Modified Draize test on albino rabbits - no dermal irritation on prolonged contact. Category 4
Inhalation: Albino 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. Category 4
Skin Contact: Modified Draize test on albino rabbits - no dermal irritation on prolonged contact. Category 4
Potential Health Effects - Eye Contact: Possible mild eye irritation may occur.

SECTION 4 — FIRST AID MEASURES

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

SECTION 5 — FIRE FIGHTING MEASURES

Flammable X No	If yes, under which conditions? Non-Flammable		
Means of Extinction N/A			
Flashpoint (° C) and Method N/A	Upper Flammable Limit (% by volume) N/A	Lower Flammable Limit (% by volume) N/A	
Auto-ignition Temperature (°C) N/A	Explosion Data — Sensitivity to Impact N/A	Explosion Data — Sensitivity to Static Discharge N/A	
Hazardous Combustion Products No volatile organic compounds (VOC) [NFPA]			
N/A			

SECTION 6 — ACCIDENTAL RELEASE MEASURES

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. No VOC's. 100% biodegradable.

SECTION 7 — HANDLING AND STORAGE

Store large quantities in buildings that comply with OSHA 1910.106 and prevent build-up of vapors by maintaining continuous flow of fresh air.
Do not store above 120 °(F) or near open flame. Keep away from heat, strong sunlight, and strong acids. Do not smoke.
Keep container closed when not in use. Do not transfer contents to unlabelled bottles or other unlabelled containers.
Keep out of reach of children.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits	OSHA PEL N/A			Other N/A
Specific Engineering Controls:		- 4		
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.				
Personal Protective Equipment: Respirator None required for consumer product applied by spray bottle, sponge, mop, etc.	Eye: None required for consumer product	Footwear: None	Clothing: None	Gloves: None
Eye protection and respiration protection are suggested when product is applied by fogger or pressure sprayer				

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Odor and Appearance	Odor Threshold (ppm)
Stable	Mild-Fresh	N/A
Specific Gravity	Vapor Density (air = 1)	Vapor Pressure (mmHg)
(WATER = 1) 1.05	N/A	N/A
Evaporation Rate	Boiling Point	Freezing Point
Less than Ether	212 (° F)	32 (° F)
PH Approx. 8 - 9	Coefficient of Water/Oil Distribution N/A	[Solubility in Water] 100%

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability Stable	X Yes	If no, under which conditions?	
Incompatibility with Other Substances	X Yes	If yes, which ones? Strong Acids	
Reactivity, and under what conditions	? Avoid strong acids	Total of Troids	
Hazardous Decomposition Products:	Thermal or other decomposition	on may yield chlorine dioxide or chlorine.	

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure: At the dilutions used in this formulation, stall	pilized chlorine dioxide was found to be non-toxic.
Ingestion: Acute oral toxicity in albino rats: LD ₅₀ is greater than >5,00	0 mg/kg
Skin Absorption: N/A	
Effects of chronic exposure: At the dilutions used in this formulation, sta	abilized chlorine dioxide was found to be non-toxic.
Irritancy of Product: Mildly irritating to eyes	
Skin sensitization: Draize test on albino rabbits - no dermal irritation on prolonged contact	Respiratory sensitization: Albino rats exposed to a 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
Carcinogenicity-IARC N/A	Carcinogenicity - ACGIH N/A
Reproductive toxicity N/A	Teratogenicity N/A
Embrotoxicity N/A	Mutagenicity N/A
Name of synergistic products/effects N/A	

SECTION 12 — ECOLOGICAL INFORMATION

[Aquatic Toxicity] P. promelas (fat head minnow) 96-hour Median Lethal Concentration (LC50) 256.85 mg/L

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal: No special precautions are required for the consumer product.

SECTION 14 — TRANSPORT INFORMATION

DOT HAZARD CLASS:	DOT SHIPPING NAME:	DOT LABEL: None required	
Not a US DEPT. of Transportation Hazard Material	Not regulated	No UN number	

SECTION 15 — REGULATORY INFORMATION

WHMIS Classification: Not Classified OSHA: Not Regulated SARA: Not Listed IARC: Not Listed California Prop 65: Not Listed Meets CARB requirements

SECTION 16 — OTHER INFORMATION

This MSDS has been prepared using data from sources considered technically reliable. It does not constitute a warranty as to the accuracy of the information contained within.

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