

Vital Oxide

SDS Revision Date:

04/30/2015

## 1. Identification

Vital Oxide				
1.2. Relevant identified uses of the substance or mixture and uses advised against				
Disinfectant				
See Technical Data Sheet.				
1.3. Details of the supplier of the safety data sheet				
Orison Marketing, LLC				
4801 South Danville Drive				
Abilene, TX 79602				
(800) 424-9300				
US: 800-460-2403				
-				

## 2. Hazard(s) identification

## 2.1. Classification of the substance or mixture

No applicable GHS categories.

## 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows. No applicable GHS categories.

## [Prevention]:

No GHS prevention statements [Response]: No GHS response statements [Storage]: No GHS storage statements [Disposal]: No GHS disposal statements



Vital Oxide

SDS Revision Date:

04/30/2015

# 3. Composition/information on ingredients

Ingredient/Chemical Designations	Weight %	Notes
Oxychlorine Compounds CAS Number: Mixture	0.200	1
n-Alkyl Dimethyl Benzyl Ammonium Chloride CAS Number: 68391-01-5	0.125	1
n-Alkyl Dimethyl Ethylbenzyl Ammonium Chloride CAS Number: 85409-23-0	0.125	1
Inert Ingredients CAS Number: Mixture	99.55	1

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] At these concentrations none of the ingredients are known to pose any hazards to human health.

# 4. First aid measures

#### 4.1. Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.			
Inhalation	Does NOT cause any respiratory irritation. 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.			
Eyes	In case of contact, flush eyes with plenty of water.			
Skin	Does NOT cause skin irritation.			
Ingestion	Non-toxic. Give glass of water.			
4.2. Most important syn	nptoms and effects, both acute and delayed			
Overview	Inhalation: None expected. Does NOT cause any respiratory irritation. 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.			
	Eye Contact: Eye contact may cause mild eye irritation with discomfort.			
	Skin Contact: Does NOT cause skin irritation and the product is NOT a skin sensitizer.			
	Ingestion: Product is non-toxic.			



Vital Oxide

SDS Revision Date:

04/30/2015

## 5. Fire-fighting measures

### 5.1. Extinguishing media

Non-flammable liquid. Carbon Dioxide, Foam, Dry Chemical and Water Fog.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Thermal or other decomposition may yield chlorine dioxide or chlorine.

### 5.3. Advice for fire-fighters

Non-flammable liquid. Avoid breathing decomposition products. Fire fighters wear protective clothing and NIOSH approved respirator.

ERG Guide No.

## 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

#### 6.2. Environmental precautions

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

#### 6.3. Methods and material for containment and cleaning up

Spilled material may be slippery. Small spills can be washed into chemical sewers. Large spills should be collected for disposal. Dike area to contain spill. Absorbin sand, earth, vermiculite or similar material. Wear appropriate protective equipment.

Incinerate or dispose of in approved solid waste disposal area per current regulations.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Keep away from heat and strong acids. Handle containers carefully to prevent damage and spillage.

## 7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials: Strong Acids.

Store in a dry location away from heat and strong acids. Keep containers closed when not in use.

### 7.3. Specific end use(s)

No data available.



Vital Oxide

SDS Revision Date:

04/30/2015

# 8. Exposure controls and personal protection

## 8.1. Control parameters

## Exposure

CAS No.	Ingredient	Source	Value
Mixture	Oxychlorine Compounds	OSHA	Not available
		ACGIH	Not available
		NIOSH	Not available

### Carcinogen Data

CAS No.	Ingredient	Source	Value
68391-01-5	···· · · · · · · · · · · · · · · · · ·	OSHA	Not available
Chloride	NTP	Not available	
		IARC	Not available

CAS No.	Ingredient	Source	Value
	n-Alkyl Dimethyl Ethylbenzyl	OSHA	Not available
		NTP	Not available
		IARC	Not available

#### 8.2. Exposure controls

Respiratory	None required for normal use, does NOT cause any respiratory irritation. 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.
Eyes	Not required for normal use.
Skin	Not required for normal use.
Engineering Controls	Use in adequately ventilated areas.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:



Vital Oxide

**SDS Revision Date:** 

04/30/2015

## 9. Physical and chemical properties

AppearanceClear LiquidOdorMild-FreshOdor thresholdNot MeasurepH8 - 9Melting point / freezing pointNot MeasureInitial boiling point and boiling range212 F (100 CFlash PointNot MeasureEvaporation rate (Ether = 1)< 1 (Ether =</td>Flammability (solid, gas)Not ApplicateUpper/lower flammability or explosive limitsLower ExploVapor pressure (Pa)Not MeasureVapor DensityNot Measure

Vapor Density Specific Gravity Solubility in Water Partition coefficient n-octanol/water (Log Kow) Auto-ignition temperature Decomposition temperature Viscosity (cSt)

**9.2. Other information** No other relevant information. Mild-Fresh Not Measured Not Measured 212 F (100 C) Not Measured (non-flammable) < 1 (Ether = 1) Not Applicable Lower Explosive Limit: Not Measured Upper Explosive Limit: Not Measured Not Measured Not Measured 1.003 (Water = 1) Complete Not Measured Not Measured Not Measured Not Measured (water like)

## 10. Stability and reactivity

# 10.1. Reactivity Hazardous Polymerization will not occur. 10.2. Chemical stability Stable under normal circumstances. 10.3. Possibility of hazardous reactions No data available. 10.4. Conditions to avoid Keep away from strong acids. 10.5. Incompatible materials Strong acids. 10.6. Hazardous decomposition products Thermal or other decomposition may yield chlorine dioxide or chlorine. Page 5 of 8



Vital Oxide

SDS Revision Date:

04/30/2015

# **11.** Toxicological information

## TOXICITY TESTING – Non Toxic

Acute Inhalation – Studies with Wistar Albino rats exposed to a respirable aerosol made from a solution of Vital Oxide at a level of 2.08 mg/l for four hours resulted in no deaths and no abnormal necropsy observations. **Eye Contact** – Studies with New Zealand white rabbits showed this product is a very mild ocular irritant; mild irritation was observed, but cleared within 24 hours.

**Skin Contact** – Study of dermal toxicity in New Zealand white rabbits showed the product to be non-toxic: Dermal  $LD_{50}$ > 5000 mg/kg of body weight; Study of dermal irritation in New Zealand white rabbits showed the product is not a dermal irritant. In Dermal Sensitization studies, Vital Oxide was determined not to be a sensitizer. **Oral / Swallowing** – Non Toxic. Acute oral toxicity in albino rats: Non-toxic LD50>5000 mg/kg of body weight.

**EPA TOXICITY RATING – IV** (For all exposure routes). This is the lowest category on the scale and is designed for substances that are the least hazardous.

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

# **12. Ecological information**

## 12.1. Toxicity

Non-toxic, non-hazardous, safe for the environment.

12.2. Persistence and degradability
The product is readily biodegradable
12.3. Bioaccumulative potential
Not Measured
12.4. Mobility in soil
No data available.
12.5. Results of PBT and vPvB assessment
This product contains no PBT/vPvB chemicals.
12.6. Other adverse effects
No data available.



Vital Oxide

SDS Revision Date:

04/30/2015

## **13. Disposal considerations**

#### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

## 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA		
14.1. UN number	Not Applicable	Not Regulated	Not Regulated		
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated		
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable		
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable		
14.5. Environmental hazards					

IMDG Marine Pollutant: No

#### 14.6. Special precautions for user

No further information

# 15. Regulatory information

 Regulatory Overview
 The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

 Toxic Substance
 All components of this material are either listed or exempt from listing on the TSCA Inventory.

 WHMIS Classification
 Not Regulated

 US EPA Tier II Hazards
 Fire: No

 Sudden Release of Pressure: No
 Reactive: No

 Immediate (Acute): No
 Delayed (Chronic): No

#### EPCRA 311/312 Chemicals and RQs:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

#### EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.



# Vital Oxide

**SDS Revision Date:** 

04/30/2015

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Developmental Toxins (>0.0%):** To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):** To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):** To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

## Pennsylvania RTK Substances (>1%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

# 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and is not valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Document