

SAFETY DATA SHEET

Section 1: Identification

Product Name: **VaporXL-WT** Synonyms: Vapor Phase Odor Neutralizer
Recommended Use: Formulated to be evaporated and delivered into malodorous air to eliminate fugitive nuisance odor emissions in municipal and industrial applications.
Manufacturer: BioTriad Environmental, Inc.
273 Center Road
Stroudsburg, PA 18360
General Information: Tel: (570) 730-4705 Fax: (570) 300-2323 Web: www.biotriad.com
Emergency Phone: (888) 658-7423

Section 2: Hazard(s) Identification

Hazard Classification:

Physical Hazards	Flammable Liquids	Category 3
Health Hazards	Skin Corrosion / Irritation	Category 2
	Serious Eye Damage / Eye Irritation	Category 2A
Environmental Hazards	Not Classified	

Signal Word: Warning

Hazard Statements:

H226 Flammable liquid and vapor
H315 Causes skin irritation
H320 Causes eye irritation.

Pictograms:



Precautionary Statements: P210 Keep away from heat/sparks/open flames/hot surfaces.
P233 Keep container tightly closed
P264 Wash thoroughly after handling
P280 Wear protective gloves/eye protection/face protection.

Section 3: Composition / Information on Ingredients

The specific chemical identities of the ingredients of these formulas are considered by BioTriad Environmental, Inc. to be trade secrets and are withheld in accordance with the provisions of 1910-1200 of Title 29 of the code of Federal Regulations.

Section 4: First-Aid Measures

Skin: Wash exposed areas with soap and water. Remove contaminated clothing while washing continuously. Seek medical attention immediately if skin becomes irritated. Wash contaminated clothing thoroughly before re-use.

Eyes: Flush eyes with water for a minimum of fifteen minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. If irritation develops, seek medical attention immediately.

Ingestion: DO NOT INDUCE VOMITING. Examine lips and mouth to determine if irritation has occurred. If victim is conscious then rinse mouth with water. If swallowed, seek medical attention immediately. If irritation occurs, seek medical attention.

Inhalation: If breathing is difficult, move victim to fresh air. If breathing remains difficult, it may be necessary to administer oxygen. Seek medical attention if symptoms persist.

Most Important Symptoms / Effects, Acute and Delayed:

Symptoms of skin exposure may include redness, stinging, and / or swelling.

Symptoms of exposure of the concentrated liquid to the eye may include severe irritation, redness of the eyes and / or blurred vision.

Section 5: Fire-Fighting Measures

Extinguishing Media: Carbon dioxide, foam or dry chemical. Avoid using water.

Method of Extinguishing: Wear self-contained breathing apparatus and full protective clothing.

Products of Combustion: Forms acrid fumes, carbon dioxide, and carbon monoxide.

Section 6: Accidental Release Measures

Personal Precautions:	Use personal protection as recommended in section 8 of this SDS. Product is slippery; utilize anti-slip procedures. Isolate the spill area and deny entry to unprotected personnel. Avoid static electricity discharge. Avoid sources of heat/sparks/open flames/hot surfaces.
Emergency Procedures:	All emergency response personnel must use personal protection as recommended in section 8 of this SDS. Personal and ecological safety should be the primary goals of emergency responders.
Containment Methods:	Stop the flow of the liquid spill, and rope off area with caution tape. Keep out of drains, ditches, and waterways. Cap and/or cover drains. Dike spill area to prevent liquid from entering ditches and waterways.
Cleanup Procedures:	Absorb liquid with granular oil absorbent and allow time for absorption. Sweep up granular absorbent and dispose of according to local, state, and federal regulations.

Section 7: Handling and Storage

Handling Procedures:	Utilize Exposure Controls / Personal Protection as detailed in section 8. Avoid sources of heat / sparks / open flames / and hot surfaces. Avoid contact with incompatible materials. Keep container closed. Open containers slowly to avoid a potential pressure release. Do not return unused product to the container. Avoid discharge of static electricity.
Storage Procedures:	Store in original containers or in dedicated bulk storage facilities. Keep away from sun / heat /sparks / open flames / and hot surfaces. Store in a cool, dry and fireproof area away from sources of friction.
Recommendations to Minimize Release Into the Environment:	Use secondary containment when pouring or pumping this product. Secondary containment should also be used if containers are in a location where they can become damaged and / or leak onto the ground and / or into waterways. Cover unsealed containers and equipment containing this product if rain, running water, or washing runoff can potentially carry the product onto the ground or into waterways.
General Hygiene Practices:	Do not smoke when in the area where this product is stored or used. Do not eat or drink in the area where this product is stored or used. Wash hands and exposed skin thoroughly after handling this product. Wash clothing that has come in contact with this product before re-use.

Section 8: Exposure Controls / Personal Protection

OSHA Permissible Exposure Limits (PELs): No exposure limits noted for this product or for any of the ingredients of this product.

American Conference of Governmental Industrial Hygienists (ACGIH) (TLVs): No exposure limits noted for this product or for any of the ingredients of this product.

Appropriate Engineering Controls: Use local exhaust ventilation.

Recommendations for Personal Protective Measures: Avoid discharge of static electricity.
Keep away from heat/sparks/open flames/hot surfaces.

Requirements for Personal Protective Equipment:

Eye protection: Use protective safety glasses with side shields when working in the area where this product is stored or used. Use protective chemical-resistant goggles with a face shield when working directly with this product and a splash to the face or eyes is possible.

Skin protection: Use nitrile gloves when working in an area where this product is stored or used. Use nitrile gloves that are a full arm length when working directly with this product and a splash to the forearms is possible.
Use nitrile spill-resistant boots with a high top when working directly with this product and a splash to the feet or lower legs is possible.
Use a nitrile apron, and / or a nitrile body suit if working directly with this product and a splash to an unprotected part of the body is possible.

Respiratory protection: Not normally required.

Section 9: Physical and Chemical Properties

Physical State: Liquid at room temperature.

Color: Light Yellow / Orange.

Upper Flammability Limit: Not Available

Lower Flammability Limit: Not Available

Explosive Limit: Not Available

Odor: A fragrance of citrus and spices characteristic of this unique product.

Odor Threshold: Not Available

pH: 6.0 - 8.0

Melting Point: Not Available

Freezing Point: -140°F / -96°C

Initial Boiling Point: 349°F / 176°C
Boiling Range: Not Available
Flashpoint: >113°F / 44°C
Evaporation Rate (Water=1): < 1
Vapor Pressure: <2mmHg at 68°F / 20°C.
Vapor Density (air = 1): > 1
Relative Density: Not Available
Solubility: Completely insoluble
Partial Coefficient (n-octanol/water): Not Available
Auto-ignition Temperature: Not Available
Decomposition Temperature: Not Available
Viscosity: Not available
Specific Gravity (water = 1): 0.838 to 0.843 at 68°F / 20°C
Percent Volatile: Not available

Section 10: Stability and Reactivity

Reactivity: This product and the ingredients of this product are non-reactive under normal use, storage and transportation.

Chemical Stability: This product and the ingredients of this product are stable under normal use, storage and transportation.

Conditions to Avoid: Avoid sources of heat / sparks / open flames / and hot surfaces.
Avoid discharge of static electricity and electrical sparks.
Avoid contact with incompatible materials.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: No hazardous decomposition products are expected under normal use, storage and transportation.

Possible Hazardous Reactions: Stable when stored and used under suitable storage conditions.
No known hazardous reactions known.

Product Shelf Life: Product should be stable and usable for two years from the date of manufacture when stored and used under the guidelines described in this safety data sheet.

Section 11: Toxicological Information

Information on the Likely Routes of Exposure:

Inhalation: No adverse effects due to inhalation are expected.

Skin Contact: Causes skin irritation.

Eye Contact: Causes eye irritation.

Ingestion: Droplets of liquid product aspirated into the lungs during ingestion can cause serious chemical pneumonia.

Description of the Effects of Short and Long Term Exposure:

Acute Effects: Low risks of oral, dermal and inhalation toxicity as the concentrated liquid.

Chronic Effects: The ingredients of this product are not classified as carcinogens by OSHA, IARC, ACGIH, or NTP. The ingredients of this product contains no known genetic, reproductive or developmental toxins.

Information on Toxicological Effects:

Description	Species	Test Results
Inhalation LD50	Mice	Unknown
Dermal LD50	Guinea Pigs	Unknown
Dermal LD50	Rabbits	Unknown

Description of Symptoms Associated With Exposure:

Skin Contact: Symptoms may include redness, swelling and irritation.

Eye Contact: Symptoms may include redness, blurred vision and irritation.

Ingestion: Symptoms may include gastric distress, irritation to the lips, mouth, and throat, vomiting, diarrhea, discomfort, and severe irritation to the lungs if liquid droplets are aspirated during ingestion or vomiting.

Carcinogenicity and Toxicity:

National Toxicology Program (NTP) Report on Carcinogens: No Ingredients Listed

International Agency for Research on Cancer (IARC) Monographs: No Ingredients Listed

OSHA Specifically Regulated Substances: No Ingredients Listed

Section 12: Ecological Information

Ecotoxicity: This product is not classified as an environmental hazard. However, there is a possible toxicity to aquatic organisms and ecosystems should a spill enter waterways due to large or frequent spills.

Degradability: Product is expected to be readily biodegradable.

Bioaccumulation: No appreciable bioaccumulation is expected in the environment.

Mobility in Environment: Product is hydrophobic and may float on top of water.

Section 13: Disposal Considerations

Utilize Exposure Controls / Personal Protection as detailed in section 8 of this SDS.
Package product in steel pails or drums prior to disposal.
Dispose of product as a waste oil solvent, adhering to all local, state, and federal regulations.
Do not drain into a sewer system, onto the ground, or allow liquid to enter waterways.

Section 14: Transport Information

Proper Shipping Name: Terpene Hydrocarbons, N. O. S. (Contains Citrus Oils), 3 PGIII
Hazard Class: 3
Identification Number: UN2319
Packaging Group: III
Label / Placard: Exception §173.150(f) applies

Section 15: Regulatory Information

OSHA Regulations Not Listed Elsewhere On This SDS: None
Department of Transportation Regulations Not Listed Elsewhere On This SDS: None
Environmental Protection Agency Regulations Not Listed Elsewhere On This SDS: None
Consumer Product Safety Commission Regulations Not Listed Elsewhere On This SDS: None

U.S. FEDERAL REGULATORY INFORMATION

Toxic Substances Control Act (TSCA) Regulations, 40 CFR 710:

All components are listed on the Toxic Substances Control Act (TSCA) Inventory.
SARA 302: No ingredients are subject to reporting requirements
SARA 311/312: Fire Hazard
SARA 313: No ingredients are subject to reporting requirements

Section 16: Other Information

HMIS	Health	1
	Flammability	0
	Physical Hazard	0
Hazardous Material Information System	Personal Protection	B

Date Revised: May 27, 2015

Revisions: SDS GHS compliance

NFPA: National Fire Protection Association

Health – 1
Fire – 0
Reactivity – 0
Special Hazard – 0