

VAPORADE PLUS

EXPLOSIVE VAPOR SUPPRESSION



VaporAde Plus is a breakthrough product in the technology of controlling explosive vapors.

VaporAde Plus is a non-fluorinated product designed to suppress H₂S, benzene, and hydrocarbon vapors generated by residues of petroleum products, solvents and many other potentially dangerous materials. It also works on NORMS.

VaporAde Plus traps vapor by changing its chemical structure and the change is permanent. **VaporAde Plus** is FLUORINE FREE, nontoxic, non-corrosive and can be used with a variety of conventional fogging and spraying equipment. A **VaporAde Plus** concentration of 6% or less will reduce LEL's to a safe limit - Zero. **VaporAde Plus** works in maritime fueling stations, refineries, ethanol and other agricultural processing plants, pulp mills, manufacturing facilities and users of industrial solvents.

Authorized Representative:

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VAPORADE PLUS

Explosive Vapor Suppression

Contact GPS INTERNATIONAL LLC for more details
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PRODUCT INFO:

VaporAde Plus represents a breakthrough in the tank cleaning technology of controlling explosive vapors. A small amount of VaporAde Plus and water creates a powerful and reliable answer to the threat of fuel tank explosions. Fog the mixture into a tank and you lock up the vapors of gasoline and other dangerous materials. With the vapors rendered inert by VaporAde Plus, the tank can be cleaned and returned to service in a matter of hours. Compare this quick turnaround with the days or weeks required for ventilation and other conventional methods of vapor elimination. VaporAde Plus maximizes efficiency in tank cleaning while reducing risk to human life.

WHERE IT IS USED

VaporAde Plus works in automotive and maritime fueling stations, refineries, ethanol and other agricultural processing plants, pulp mills, manufacturing facilities, users of industrial solvents, food processors and dozens of other locations.

HOW IT WORKS

VaporAde Plus carries a positive charge that will attract and capture the negative charge in a dangerous vapor. In effect, the vapor is neutralized and the explosive potential of gasoline and other vapor producing materials is permanently ended. In most applications, a VaporAde concentration of 6 percent or less will reduce LEL's to a safe limit.



VaporAde Plus is a non-fluorinated product designed to suppress H₂S, benzene, and hydrocarbon vapors generated by residues of petroleum products, solvents and many other potentially dangerous materials.

VaporAde Plus traps vapor by changing its chemical structure. The change is permanent, instead of masking the vapor odor or releasing it into the atmosphere. VaporAde locks onto the vapor, producing a non-explosive, nonflammable substance. By way of contrast, tank fumes are merely vented into the atmosphere.

In addition, VaporAde Plus is nontoxic and non-corrosive and can be used with a variety of conventional fogging and spraying equipment.

Associated Products



**FLAMEADE
FLAME RETARDANT**



**FIREBULL F3
FLUORINE FREE**



**DUSTADE
DUST SUPPRESSION**



ENFORCER 10 CAFS

VaporAde Plus

Preparation Date: 2/28/19

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: VaporAde Plus

Recommended use: Cleaning

Manufacturer, supplier:

Fire Service Plus, Inc.
180 Etowah Trace
Fayette, GA 30214
Phone 770-460-7793

Emergency Contact Telephone number: 770-460-7793

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	1
Flammability	0
Physical Hazard	0



2. HAZARDS IDENTIFICATION

GHS Classification

Serious Eye Damage Category 1
Skin irritation Category 2
Acute Oral toxicity Category 4

GHS Label Element



Hazard Pictograms:

Signal Word: Danger

Hazard Statements

Harmful if swallowed
Causes skin irritation
Causes serious eye damage.

Precautionary Statements:

Prevention: Wash skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves and eye protection.**Response:****Principal routes of exposure:** Eye contact, Skin contact, Inhalation, Ingestion.**Skin:** Wash contaminated area with soap or mild detergent. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists.**Eyes:** Check for and remove contact lens. Immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.**Inhalation:** If symptoms occur move affected person to fresh air. If not breathing, give artificial respiration. If symptoms persist, get medical attention promptly.**Ingestion:** If product is swallowed, do not induce vomiting. If vomiting occurs keep head lower than hips to help prevent aspiration. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention at once.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS #	Weight %
Sodium salt of hexanoic acid	10051-44-2	<1
Proprietary surfactant blend	NA	10-15
2-methyl-2,4-pentanediol	107-41-5	<1

4. FIRST AID MEASURES

Skin contact: Wash contaminated area with soap or mild detergent. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists.

Eye contact: Check for and remove contact lens. Immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.
Inhalation: If symptoms occur, move affected person to fresh air. If not breathing, give artificial respiration. If symptoms persist, get medical attention promptly.
Ingestion: If product is swallowed, do not induce vomiting. If vomiting occurs keep head lower than hips to help prevent aspiration. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention at once.

5. FIRE-FIGHTING MEASURES

Fire Fighting Procedure: Use water vapor, foam or fog. Firefighters should wear proper protective equipment.
Fire Hazard: N/A
Flash Point (F°, TCC): None
Flammable Limits: LEL: N/A

6. ACCIDENTAL RELEASE MEASURES

Spill Clean Up: Wear appropriate protective equipment (see Section 8). Absorb with an inert material and put spilled material in appropriate waste disposal.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Keep container closed. Wash thoroughly after handling.
Storage: Keep container in cool well ventilated area. Keep container tightly closed. Store away from incompatible materials. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:
No special ventilation requirements. General room ventilation is adequate.

Personal Protective Equipment

Eyes: Safety eyewear should be used when there is a likelihood of exposure.
Hand: For prolonged or repeated handling wear impervious chemical resistant gloves.
Skin: Wear normal work place attire.
Respiratory: Avoid breathing vapors, spray or mists.

Ingredient(s)	CAS #	ACGIH	OSHA	Mexico
2-methyl-2,4-pentanediol	107-41-5	10 ppm		

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	dark amber liquid
Odor	mild pleasant clean smell
Upper and lower flammability or explosive limits	not available
Vapor pressure	not available
Odor threshold	not available
Vapor density	not available
pH	7-9
Relative density	0.98-1.02
Melting point/freezing point	not available
Boiling Point deg. F	not available
Solubility water	soluble
Initial boiling point and boiling range	not available
Flash point	not available
Evaporation rate	not available
Auto-ignition temperature	not available
Decomposition temperature	not available
VOC content (%)	<6
Viscosity	not available

10. STABILITY AND REACTIVITY

Stability: Stable
Incompatibility: Strong oxidizing agents.
Polymerization: Will not occur.
Hazardous Decomposition: Carbon monoxide, carbon dioxide, and other organic materials.

11. TOXICOLOGICAL INFORMATION

Toxicity to animals: Oral (Rat) LD50: >2000 mg/kg

12. ECOLOGICAL INFORMATION

Ecological Information: Not available.

Biodegradable/OECD: Not available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Liquid wastes are not permitted in landfill. Consult local, state, and federal agencies for proper disposal in your area.

Classification: Non-hazardous waste

14. TRANSPORT INFORMATION

Under DOT code 55 for shipping

Note: DOT classification does not necessarily apply to all sizes. For specific container size exceptions, refer to the Bill of Lading with your shipment.

15. REGULATORY INFORMATION

SARA 313 toxic chemical notification and release reporting: No product found

Clean Water Act (CWA) regulated substance: No product found

Clean Air Act (CAA) 112 regulated toxic substances: No product found

State Regulations: The following ingredients appear on various State's Right to Know lists and/or California's Proposition 65 list:

Ingredient(s)	CAS #	State List
None		

SARA 311/312 Hazard Categories

Immediate: -
Delayed: -
Fire: -
Reactivity: -
Sudden Release of Pressure: -

Canada

WHMIS Hazard Class:

16. OTHER INFORMATION

Reason for revision: Format revision

Additional advice:

Notice to Reader:

As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered in good faith in the belief that it is accurate. This material safety data sheet shall not be deemed to constitute or imply any warranty of any kind. In the event of an adverse incident associated with this material, this safety data sheet is not intended as a substitute for consultation with appropriately trained personnel (refer to section 1). Some information presented and conclusions herein are from sources other than test data on the substance itself. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with handling, storage, use or disposal of the product.