

**Section 1: Identification**

**Product identifier:** Horizon Vantage

**Other means of identification:** Bathroom Cleaner/Disinfectant

**SDS number:** 922

**EPA number:** 6836-75-7116

**Recommended use:** Sanitizer

**Recommended restrictions:** Not for personal care

**Manufacturer/Importer/Supplier/Distributor information:**

**Company name:** UNX Industries, Inc.

**Address:** 707 Arlington Blvd  
Greenville, NC 27858

**Telephone:** Office hours (Mon-Fri)  
8:00a.m. – 4:00p.m. (Eastern Time)  
OFFICE NUMBER: 252-756-8616

**E-mail:** unx@unxinc.com

**Emergency phone number:** CHEMTEL (800) 255-3924 (24 HOURS)

**Section 2: Hazard(s) identification**

**Classification of the substance or mixture:**

**Physical hazards:**

Corrosive to metals Category 1

**Health hazards:**

Acute toxicity; Oral/Dermal/Inhalation: Category 4  
 Skin corrosion/irritation: Category 1C  
 Serious eye damage/eye irritation: Category 1  
 Specific target organ toxicity,  
 Single exposure; Respiratory tract irritation: Category 3

**Environmental hazards:**

Hazardous to the aquatic environment, Acute: Category 2  
 Hazardous to the aquatic environment, Long-term hazard: Category 2

**Label elements:**



**Signal word:** Danger

## Section 2: Hazard(s) identification (continued)

### Hazard statements:

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

### Precautionary statements:

#### Prevention:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P233	Keep container tightly closed.
P260	Do not breathe mist or vapor.
P264	Wash hands, arms, face and exposed skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this products.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.

#### Response:

P301+P330+P331	IF SWALLOWED: Immediately a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362+P364	Take off contaminated clothing and wash it before reuse.

#### Storage:

P403+P223	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P406	Store in corrosive resistant/...container with a resistant inner liner.

#### Disposal:

P501	Dispose of contents/container in accordance with local/ regional/ national/ international Regulations.
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**Hazard(s) not otherwise classified (HNOC)**    None known.

### Section 3: Composition/information on ingredients

#### Substance/Mixtures

Chemical name	CAS Number	Concentration (%)
Water	7732-18-5	35-50
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	0-5
Sodium metasilicate	6834-92-0	5-15
Alcohols, C12-15, ethoxylated	68131-39-5	0-5
Ethanol	64-17-5	0-1

### Section 4: First-aid measures

#### Description of first aid measures:

##### Non-emergency personnel

**General advice:** Safely remove victims from the danger zone. Provide emergency services with this safety data sheet.

**Eye contact:** Rinse eye with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call poison control or get medical attention immediately.

**Skin contact:** Rinse immediately with plenty of water. Call poison control or get medical attention immediately. Chemical burns must be treated by a medical professional.

**Ingestion:** Rinse mouth with plenty of water. Do not give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention immediately.

**Inhalation:** Bring victim out to fresh air. If the person is conscious, call poison control or doctor for treatment advice. If the person is not breathing, get medical attention immediately.

##### Emergency personnel

**Personal protection:** Refer to Section 8 for specific personal protective equipment.

**Notes to physician:** The concentration and length of exposure impacts the severity of the symptoms.

##### Most important symptoms/effects, acute and delayed:

Refer to Section 2 for hazards and Section 11 for information on health effects and symptoms. Treat symptomatically.

**Indication of immediate medical attention and special treatment needed, if necessary:** Provide general supportive measures. Eye contact, inhalation, and ingestion cases should be treated immediately. Have procedures and facilities in place to treat these cases of exposure.

## Section 5: Fire-fighting measures

**Suitable extinguishing media:** Use measures that are suitable for the current situation. If fire is present, use water or an extinguisher if available. Do not use highly pressurized water to avoid spread.

**Unsuitable extinguishing media:** Do not use water jet as this can spread the fire. Do not use carbon dioxide in enclosed spaces with insufficient ventilation.

**Specific hazards arising from the chemical:** Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. Gases hazardous to health may be formed. Product containers can melt from the heat of the fire and the combustible packaging material will fuel the fire. Do not breathe in any fumes from the fire. Withdraw immediately in cases of rising sound from venting safety device or discoloration of tanks. For massive fire in cargo, use unmanned hose holder or monitor nozzles. If not, withdraw and let fire burn out.

**Special protective equipment for fire-fighters:** Wear full protective airtight garment and NIOSH approved self-contained breathing apparatus with independent air-supply. Fight the fire in early stages if safe to do so. Provide sufficient ventilation and be aware of hydrogen generation upon reactions with some metals. Do not allow contaminated extinguishing water to enter the soil, ground-water supply or surface waters.

## Section 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Ventilate and restrict access to the area of leak or spill. Have emergency procedures in place for treating incidents, evacuation and informing the emergency services. Refer to Section 8 for personal protective equipment.

**Environmental precautions:** Clean up spills/leaks immediately and prevent it from spreading. Large or uncontrolled spills to water systems must be reported to appropriate regulatory body.

**Methods and materials for containment and cleaning up:** Absorb spills with non-combustible absorbent. Dam and absorb with sand, earth or other inert material for large spills/leaks. Collect spillage in containers with labeled contents and dispose according to local regulations. Flush the contaminated area with lots of water.

## Section 7: Handling and storage

**Precautions for safe handling:** Refer to Section 8 for personal protective equipment. Do not eat, drink, or smoke when handling the product. Avoid skin and eye contact. Follow general hygiene routines after working with the product. When handling large amounts of the product, be sure to have a safety shower nearby.

**Conditions for safe storage:** Store in a suitable, closed and labeled container upright at temperature between 40°F and 100°F in a well-ventilated area. Opened containers must be properly resealed to avoid spillage. Store away from heat, direct sunlight and moisture. It is preferred to keep the container on sump pallets. Store in high-density polyethylene containers. See Section 10 for incompatible materials.

## Section 8: Exposure control/personal protection

### Control Parameters

#### Occupational exposure limits

##### US.OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Chemical Name	CAS-No.	Type	Value	
Ethanol	64-17-5	PEL	1,000 ppm	1,900 mg/m <sup>3</sup>
Sodium metasilicate	6834-92-0	PEL	2 mg/m <sup>3</sup>	

##### U.S. ACGIH Threshold Limit Values

Chemical Name	CAS-No.	Type	Value
Ethanol	64-17-5	STEL	1,000 ppm
Sodium metasilicate	6834-92-0	TLV	2 mg/m <sup>3</sup>

#### Appropriate engineering controls/ventilation system:

A general exhaust system is recommended to keep employee exposures below the limits. An additional local exhaust system is preferred in order to control emissions at its source.

#### Personal protective equipment (PPE)

**Respiratory protection:** A NIOSH approved full-face respirator with high efficiency dust/mist filter is recommended. For emergencies or when dealing with unknown exposure measures, use a full-face piece positive-pressure, air-supplied respirator fitted with a suitable cartridge for the chemical. Consult respirator supplier regarding the compatibility of the equipment.

**CAUTION:** Air purifying respirators do not protect the user in oxygen deficient atmospheres, use an air supply system.

**Hand protection:** Impervious gloves, with suitable protection for workplace, are recommended any time the product is being handled. Consult glove supplier for details on suitability, breakthrough time and permeability. Frequent change of the gloves is advisable. Be aware that latex gloves can trigger an allergic reaction to sensitive individuals.

**Eye protection:** Use chemical safety goggles and/or full-face shield when handling the product.

**Skin/Body protection:** Wear impervious protective clothing, boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Take additional precaution if handling amounts past the exposure limits.

**Thermal hazard:** Wear thermal protective clothing when necessary.

**General hygiene:** Change out of clothes, thoroughly wash your hands and clothes, and shower/bathe as soon as possible. Do not eat, drink, smoke or use the bathroom while handling the product.

**Other protective measures:** Have an eye wash and safety shower station close by. Routinely wash all equipment to remove contaminants.

## Section 9: Physical and chemical properties

<b>Appearance:</b>	Liquid
<b>Color:</b>	Green
<b>Odor:</b>	Fresh fragrance
<b>Odor Threshold:</b>	No data available
<b>pH:</b>	11.5 - 14
<b>Melting point/range:</b>	No data available
<b>Boiling point/range:</b>	No data available
<b>Flash point:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Flammability (solid, gas):</b>	No data available
<b>Upper/lower flammability of explosive limits:</b>	No data available
<b>Vapor pressure (mm Hg):</b>	No data available
<b>Vapor density (Air=1):</b>	No data available
<b>Relative density:</b>	No data available
<b>Solubility(ies):</b>	Excellent in warm water
<b>Partition coefficient (n-octanol/water):</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Viscosity, dynamic:</b>	No data available

**Other Information:** This product contains no phosphates.

## Section 10: Stability and reactivity

**Reactivity:** No hazardous reactions are known under normal storage conditions and if handled according to standard industrial practices.

**Chemical stability:** Stable if under normal storage conditions and handled according to standard industrial practices.

**Possibility of hazardous reactions:** Hazardous polymerization will not occur.

**Conditions to avoid:** No hazardous conditions are known.

**Incompatible materials:** Strong oxidizing agents, combustible materials and flammable materials.

**Hazardous decomposition products:** None are known based on provided information.

**Section 11: Toxicological information**

**Acute toxicity:** Toxicological testing has not been conducted with this material. The toxicology information listed below is based on the components of this material.

Category 4- Oral/Dermal/Inhalation: Harmful; if swallowed/in contact with skin/if inhaled.

<b>Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides – ATE (Acute Toxicity Estimate)</b>	
Oral LD <sub>50</sub> 229 mg/kg (Rat)	Dermal LD <sub>50</sub> 421 mg/kg (Rabbit)

<b>N-Alkyl(C12-16)-N,N-dimethyl-N-benzylammonium chloride – ATE (Acute Toxicity Estimate)</b>	
Oral LD <sub>50</sub> 344 mg/kg (Rat)	Dermal LD <sub>50</sub> 3,340 mg/kg (Rabbit)

<b>Didecyldimethylammonium chloride – ATE (Acute Toxicity Estimate)</b>	
Oral LD <sub>50</sub> 238 mg/kg (Rat)	Dermal LD <sub>50</sub> 3,342 mg/kg (Rabbit)

<b>Alcohols, C12-15, ethoxylated – ATE (Acute Toxicity Estimate)</b>	
Oral LD <sub>50</sub> 1,200 mg/kg (Rat)	Dermal LD <sub>50</sub> 5000 mg/kg (Rat)

<b>Sodium metasilicate - Acute Toxicity Estimate (ATE)</b>		
Oral LD <sub>50</sub> 1,500-3,200 mg/kg (Rat)	Dermal LD <sub>50</sub> >5,000 mg/kg (Rat)	Inhalation LC <sub>50</sub> >2,060 mg/kg (Rat)

<b>Tetrasodium ethylenediamine tetraacetate - Acute Toxicity Estimate (ATE)</b>	
Oral LD <sub>50</sub> 3,030 mg/kg (Rat)	Dermal LD <sub>50</sub> >5,000 mg/kg (Rabbit)

<b>Ethanol</b>
A3 Confirmed animal carcinogen with unknown relevance to humans.

**Skin corrosion/irritation:** Category 1C: Causes severe skin burns and eye damage.

**Serious eye damage/irritation:** Category 1: Causes serious eye damage.

**Respiratory or skin sensitization:** No information available.

**Germ cell mutagenicity:** Classification not possible.

**Carcinogenicity:** No product components are considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**Reproductive toxicity:** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure:** Category 3: Sodium metasilicate may cause respiratory irritation.

**Aspiration hazard:** Classification not possible.

## Section 12: Ecological information

**Toxicity:** Do not allow to escape into waterways, wastewater or soil. Ecotoxicological studies of the product are not available. Please find below the data available to us from raw materials:

### Aquatic ecotoxicity:

Acute: Category 2: Toxic to aquatic life.

Chronic: Category 2: Toxic to aquatic life with long lasting effects.

Mixture of ADBAC/ADEBAC*		
EC <sub>50</sub> Algae 0.063 mg/L 96 hrs	LC <sub>50</sub> Daphnia 0.0058 – 0.016 mg/L 48 hrs	LC <sub>50</sub> Fish 0.86 ppm 96 hrs

Alcohols, C12-15, ethoxylated		
LC <sub>50</sub> Fathead minnow 2.7 mg/L 96 h	EC <sub>50</sub> Daphnia 0.4 – 0.75 mg/L 48 h	EC <sub>50</sub> Algae 0.9 mg/L 96 h

Tetrasodium ethylenediamine tetraacetate
LC <sub>50</sub> fathead minnow (Pimephelas promelas) 96 h: >100 mg/l

Sodium metasilicate			
LC <sub>50</sub> : water flea 113 mg/L- 48 h	LC <sub>50</sub> : mosquito fish 530mg/L- 96 h	LC <sub>50</sub> - Scud 160mg/L/96 h	LC <sub>50</sub> : Polychaete 210-250 ug/L/28 d

**Persistence and degradability:** No data is available on the degradability of this product.

**Bioaccumulative potential:** No data available for this product. **Mobility in soil:** Not available.

**Other adverse effects:** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## Section 13: Disposal considerations

**General information:** Do not allow the product to contaminate any body of water. Refer to Section 8 for personal protection equipment.

**Disposal methods:** Avoid unauthorized disposal. Do not dump into any body of water. Comply with federal, state/provincial and local laws/regulations. Do not reuse empty containers.



**Section 14: Transport information**

UN Number: Not Available  
 UN Proper shipping name: Not Applicable  
 Transport hazard class(es):  
     DOT Hazard class: Not Available  
     DOT Subsidiary hazard class: Not Available  
 Packing group, if available: Not Available  
 Environmental hazards: No  
 Special precautions for user: Not DOT regulated.

Transport in bulk according to Annex II of MARPOL 73/78<sup>3</sup> and the IBC Code <sup>3</sup>: Not applicable.

**Section 15: Regulatory information**

**Safety, health and environmental regulations/legislation specific for the substance or mixture:**  
 Unless otherwise noted, no components are SARA TITLE III, SECTION 313, 40 CFR listed materials. The ingredients of this product are listed on the TSCA inventory.

**US federal regulations:** This product is U.S. EPA registered pesticide. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**CERCLA Hazardous Substance List (40 CFR 302.4)** Not listed.  
**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
 Immediate Hazard – Yes  
 Delayed Hazard – No  
 Fire Hazard – No  
 Pressure Hazard – No  
 Reactivity Hazard – No

**SARA 302 Extremely hazardous substance** No  
**SARA 311/312 Hazardous chemical** Yes  
**SARA 311/312 Tier II Hazard Ratings:**

Component	CAS #	Fire Hazard	Reactivity Hazard	Pressure Hazard	Immediate Health Hazard	Chronic Health Hazard
Alcohols, C12-15, Ethoxylated	68131-39-5	No	No	No	Yes	No

**SARA 313 (TRI reporting)** Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List** Not regulated.  
**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)** Not regulated.  
**Safe Drinking Water Act (SDWA)** Not regulated.

**Section 15: Regulatory information (continued)**

The following components appear on one or more of the following state hazardous substance lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Ethanol	64-17-5	No	No	Yes	No	No	Yes

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Section 16: Other information including date of preparation or last revision**

**Chemical State:** Liquid  
**Chemical Type:** Mixture

Issue Date: 05-01-2021  
 Revision Date: -  
 Version #: 01

2	Health
0	Flammability
0	Physical Hazard
C	Personal Protection

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