

VEREX SAFETY DATA SHEET

UNX14559 UNX14653 UNX14659 UNX14665 UNX14671 UNX814659

SECTION 1: Identification

Product identifier: Verex

Other means of identification: Bactericidal Softener

SDS number: 146

Recommended use: Softener

Recommended restrictions: Not for personal care **Manufacturer/Importer/Supplier/Distributor information**

Company name: U.N.X. Incorporated Address: 707 Arlington Blvd Greenville, NC 27858

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SECTION 2: Hazard(s) identification

Physical hazards

Flammable liquids Category 3

Health hazards

Acute toxicity; Oral:

Acute toxicity; Inhalation:

Skin corrosion/irritation:

Category 2

Category 1

Serious eye damage/eye irritation:

Category 1

Specific target organ toxicity,

Single exposure: Category 2

Environmental hazards

Hazardous to the aquatic environment, Acute:

Category 1

Hazardous to the aquatic environment, Long-term hazard:

Category 1

Label elements:



Signal word: Danger

SECTION 2: Hazard(s) identification (continued)

Hazard statements

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H226	Flammable liquid and vapor.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H371	May cause damage to organs.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

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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.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting//equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
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+330+331	IF SWALLOWED: Immediately a POISON CENTER or doctor/physician if you feel
	unwell. Rinse mouth. Do NOT induce vomiting.
P303+361+353	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+223	Store in a well-ventilated place. Keep container tightly closed.
P403+235	Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

Dispose of contents/container in accordance with local/ regional/ national/ P501

international Regulations.

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	65-80
Methyl-1-tallow amidoethyl-2-tallow imidazolinium	68122-86-1	5-15
Alkyl dimethyl benzyl ammonium chloride (C12-18)	68391-01-5	5-15
Alkyl dimethyl ethylbenzyl ammonium chloride (68% C12, 32% C14)	85409-23-0	5-15
Propan-2-ol	67-63-0	0-10
Ethanol	64-17-5	0-5

SECTION 4: First-aid measures

Description of first aid measures

General advice: Remove victims from the danger zone without endangering your own safety. Remove contaminated clothing (including underwear and shoes) immediately.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed:

Notes to physician: The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation: Irritation of nose, throat and airway.

Ingestion: May cause nausea and/or vomiting. Irritation of the mouth, throat, esophagus and gastrointestinal tract.

Skin contact/Skin irritation: Redness or rash may occur.

Eye contact: Causes irritation and burns of the eyes. Possible corneal damage. May cause conjunctivitis Lachrymation.

Indication of immediate medical attention and special treatment needed, if necessary:

Cases of eye contact and ingestion should be treated immediately. Have facilities in place to wash skin and eyes in case of exposure.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: Water fog, foam, dry chemical powder, or carbon dioxide (CO₂).

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. During fire, gases hazardous to health may be formed. Product containers can melt in the heat of a fire. Packaging materials will be combustible and provide fuel for the fire. In the event of fire and/or explosion do not breathe fumes.

Special protective equipment and precautions for fire-fighters: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. During fire-fighting respirator with independent air-supply and airtight garment is required. Fight fire in early stages if safe to do so. Containers at risk of fire should be cooled with water and, if possible removed from the danger area. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate area of leak or spill. Ensure adequate ventilation/exhaust extraction. Put on protective equipment (see Section 8). Have emergency procedures in place for treating spillages, evacuating the area and informing the emergency services if necessary. Restrict access to the area until the spillage is treated, if large amounts of vapors are produced that will be hazardous to others, evacuate the area. When any other effects of spillages will affect the safety of others the area should be evacuated. Avoid ingestion, inhalation of vapors and contact with skin and eyes. Non-emergency personnel should be kept away from the area of spillage.

Environment precautions: Do not flush into surface water or sanitary sewers system. Avoid unauthorized discharge to the environment. Clean up any spillages immediately; prevent material from spreading and entering drains or sewage systems. Large spillages or uncontrolled discharge to water systems must be alerted to the Environmental Agency or other regulatory body. If spillages to land cannot be treated safely or if contamination will occur the Environment Agency must be alerted immediately. If the product has entered a foul drain or sewage system in significant amounts to cause a hazard then the local water treatment company must be informed.

Methods and materials for containment and cleaning up: Contain and recover liquid when possible. Small spillages should be absorbed with an inert, non-combustible absorbent. Large Spillages: Dam and absorb spillages with sand, earth or other inert material. Small quantities can be wiped up with absorbent material (e.g. cloth, fleece.) Fit drain covers where they are available if the spillage is likely to enter the drainage system. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labeled with correct contents and hazard symbol. Flush area clean with lots of water. Be aware of potential for surfaces to become slippery. Ventilate area and allow drying before allowing access. Wash thoroughly after dealing with a spillage.

Reference to other sections: Refer to sections 8 and 13 for additional information.

SECTION 7: Handling and storage

Precautions for safe handling: Keep in a tightly closed container and protect from physical damage. Store in a cool, dry, and ventilated area. Keep away from sources of heat, moisture, incompatibilities, and away from direct sunlight. Do not mix with incompatible substances or mixtures. Avoid spilling the product. Do not wash out container and use it for other purposes. Avoid ingestion of the product, inhalation of any vapors/mists when produced and contact with skin and eyes. Do not eat, drink or smoke when handling. Wash at the end of each work shift, before eating, drinking, smoking and using the toilet. Remove contaminated clothing/footwear/equipment before entering eating areas or places that would expose others to the product. Do not use in areas close to drainage systems unless measures are in place to prevent access of product. Ensure emergency procedures are in place to treat spillages and cope with other situations such as evacuation. Provide eye washing and skin washing facilities, when handling large amounts a safety shower is recommended. Observe all warnings and precautions listed for the product.

Conditions for safe storage, including any incompatibilities: Store in closed original container at temperatures between 40°F and 80°F. If the product is transferred to another container, this should be made of a compatible material to the original container. Store away from heat, direct sunlight and moisture. Store in a stable situation to avoid spillages. It is advisable to store in a bunded area or use other protective measures such as a sump pallet or storage tray.

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.	Туре	Value	
Ethanol	64-17-5	PEL	1,000 ppm	1,900 mg/m ³
Propan-2-ol	67-63-0	PEL	400 ppm	980 mg/m ³

U.S. ACGIH Threshold Limit Values

Chemical Name	CAS-No.	Type	Value
Ethanol	64-17-5	STEL	1,000 ppm
Dronon 2 ol	67.62.0	STEL	400 ppm
Propan-2-ol	67-63-0	TWA	200 ppm

U.S. NIOSH Pocket Guide to Chemical Hazards Components

Chemical Name	CAS-No.	Type	Value	
Ethanol	64-17-5	TWA	1,000 ppm	1,900 mg/m ³
Dranan 2 al	67.62.0	STEL	500 ppm	1225 mg/m ³
Propan-2-ol	67-63-0	TWA	400 ppm	980 mg/m ³

SECTION 8: Exposure control/personal protection (continued)

Appropriate engineering controls:

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the defined exposure limit requirements or guidelines. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition for details.

Individual protection measures, such as personal protective equipment (PPE)

Eye Protection: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Hand protection: Wear protective gloves. Butyl rubber, rubber (natural, latex), nitrile, polyvinyl chloride (PVC). Be aware that latex gloves can produce an allergic reaction in sensitive individuals. Gloves should have a breakthrough time sufficient for the amount of handling but allow dexterity for safe movement and handling. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Gloves showing signs of degradation should be changed to avoid skin contamination. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. When removing used gloves apply proper technique by avoiding skin contact with the outer surface. When packages of the product are being handled during storage or transport it is advisable to wear protective gloves to prevent damage to the skin.

Personal Respirators (NIOSH Approved): If the exposure limit is exceeded, a full face piece respirator with high efficiency dust/mist filter may be worn up to 50 times the exposure limit. Wear suitable respiratory protection when vapors or mists are produced if the Workplace Exposure Limit is exceeded and there is insufficient ventilation or extraction. For emergencies or instances where the exposure levels are not known, use a full face piece positive-pressure, air-supplied respirator. Respirator must be fitted with a cartridge suitable for the chemical of concern. Consult with the supplier as to the compatibility of the equipment with the chemical of concern. CAUTION: Air purifying respirators do not protect the user in oxygen deficient atmospheres, use air supplied system.

Thermal Hazards: Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations: Wash hands, change out of clothes as soon as possible.

Wash clothes. Shower or bathe as soon as possible.

Other protective measures: Have an eye bath and safety shower close by.

SECTION 9: Physical and chemical properties

Appearance: Liquid

Colour: Creamy liquid Odour: No odour

Odour Threshold: No data available

pH: 4.5 ± 0.5

Melting point/range: No data available Boiling point/range: No data available

SECTION 9: Physical and chemical properties (continued)

Flash point: No data available Evaporation rate: No data available Flammability (solid, gas): No data available

Upper/lower flammability of explosive limits: No data available

Vapour pressure (mm Hg):

Vapour density (Air=1):

Relative density:

Solubility(ies):

No data available

No data available

Excellent in warm water

Partition coefficient (n-octanol/water): No data available

Auto-ignition temperature: No data available **Decomposition temperature:** No data available

Viscosity, dynamic: 25

Other Information: This product contains no phosphates.

SECTION 10: Stability and reactivity

Reactivity and/or chemical stability: No specific reactivity hazards associated with this product. Product is stable under normal conditions of use, storage and transport.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid: Avoid heat, direct sunlight, open flames, and ignition sources. Avoid storage with incompatible materials. Avoid storage in freezing conditions. Avoid storage near to unprotected drainage systems. It is advisable to store the product within some form of containment to prevent spillages reaching drainage systems. Do not allow the storage container to be left exposed to the atmosphere. Avoid storage in an unstable manner or in a situation that would result in exposure to the product.

Incompatible Materials: Strong oxidizing agents and anionic surfactants.

Hazardous Decomposition Products: Upon decomposition this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low weight molecular hydrocarbons.

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 Harmful if swallowed. Category 2- Inhalation Fatal if inhaled.

Mixture of ADBAC/ADEBAC* – ATE (Acute Toxicity Estimate)				
Oral LD ₅₀	Inhalation LC ₅₀	Dermal LD ₅₀		
344 mg/kg (Rat)	0.054 – 0.51 mg/L	> 2000 mg/kg (Rabbit)		

^{*}Alkyl dimethyl benzyl ammonium chlorides / Alkyl dimethyl ethylbenzyl ammonium chlorides

SECTION 11: Toxicological information (continued)

Ethanol
A3 Confirmed animal carcinogen with unknown relevance to humans.

Skin Corrosion/ irritation: Category 1: Causes severe skin burns and eye damage.

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

Respiratory sensitization: No information available.

Skin sensitization: This mixture not expected to cause skin sensitization.

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: May cause damage to organs.

Aspiration hazard: Not applicable.

Specific Target Organ Toxicity - Single Exposure: Classification not possible.

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 1: Very toxic to aquatic life.

Chronic: Category 1: Very toxic to aquatic life with long lasting effects.

Methyl-1-tallow amidoethyl-2-tallow imidazolinium Me sulfates
LC ₅₀ Fish
65 ppm 96 hrs
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Propan-2-ol
LC ₅₀ Bluegill
> 1,400 mg/L 96 hrs

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

^{*}Alkyl dimethyl benzyl ammonium chlorides / Alkyl dimethyl ethylbenzyl ammonium chlorides

SECTION 12: Ecological information (continued)

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

Bioaccumulative potential: No data available for this product.

Mobility in soil: No data 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 unauthorized disposal to the environment. If operators are exposed to vapors during the disposal process then suitable respiratory protection should be worn. All other personal protective equipment as described in section 8 should be worn.

Disposal methods:

Avoid unauthorized disposal. Do not dump into any sewers, on the ground, or into any body of water. All disposal practices must be in compliance with federal, state/provincial and local laws and regulations. In case of spill, dike, collect and contact local authorities about disposal.

SECTION 14: Transport information

UN Number: Not Available UN Proper Shipping Name: Not Applicable

Transport hazard class(es):

DOT Hazard Class:

DOT Subsidiary Hazard Class:

Packing group, if available:

Not Available

Not Available

Environmental Hazards: No

Special precautions for user: Not DOT regulated.

Transport in bulk according to Annex II of MARPOL 73/783 and the IBC Code 3: 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 3 SECTION 313 40 CFR listed materials. The ingredients of this product are listed on the TSCA inventory.

SECTION 15: Regulatory information (continued)

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 – Yes Pressure Hazard – No Reactivity Hazard – No

SARA 302 Extremely hazardous substance No SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)				
Chemical name	CAS number	% by wt.		
1,4-dioxane	123-91-1	< 0.1		

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.

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

Component	CAS#	CA	FL	MA	MN	NJ	PA	RI
Ethanol	64-17-5	No	No	Yes	No	No	Yes	No
Propan-2-ol	67-63-0	No	No	Yes	No	No	Yes	Yes

California Prop. 65 Components

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US – California Proposition 65 – CRT: Listed date/Carcinogen substance

1,4-dioxane (CAS 123-91-1) Listed: January 1, 1988

US – California Proposition 65 – CRT: Listed date/Carcinogen substance

Methanol (CAS 67-56-1) Listed: March 16, 2012

SECTION 16: Other information including date of preparation or last revision

Chemical State: LiquidIssue Date:5-27-2015Chemical Type: MixtureRevision Date:11-02-2017

Version #: 02

3	Health
1	Flammability
1	Physical Hazard
С	Personal Protection

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