

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name** CleanSafe™ 7449 YHA

### Other means of identification

**Product Code** BC7449YHA

**UN-No** 3266

**Synonyms**

### Recommended use of the chemical and restrictions on use

**Recommended Use** Technical cleaning agent.

**Uses advised against** FOR INDUSTRIAL USE ONLY

### Details of the supplier of the safety data sheet

**Manufacturer Address** Vantage Specialties, Inc.  
3938 Porett Drive  
Gurnee, IL 60031 USA  
847-244-3410

### Emergency Telephone Number

**Company Phone Number** +1-847-244-3410

**Emergency Telephone Number** CHEMTREC International: +1-703-527-3887

## 2. HAZARDS IDENTIFICATION

### Classification

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

### Label Elements

### EMERGENCY OVERVIEW

**DANGER**

#### **Hazard statements**

Causes severe skin burns and eye damage



**Color** Light yellow

**Physical State** Liquid

**Odor** Mild

#### **Precautionary Statements - Prevention**

Wear eye/face protection

Wear protective gloves

#### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Immediately call a POISON CENTER or doctor/physician  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
If skin irritation occurs: Get medical advice/attention  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Seek immediate medical attention.

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container in accordance with applicable regulations.

**Hazards not otherwise classified** Harmful if swallowed  
(HNOC)

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Synonyms**

Chemical Name	CAS No.	Weight-%
Potassium hydroxide	1310-58-3	5 -10
Sodium silicate	1344-09-8	1 - 5

**4. FIRST AID MEASURES****FIRST AID MEASURES**

<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
<b>Skin contact</b>	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If symptoms persist, call a physician.
<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>Ingestion</b>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Seek immediate medical attention.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Irritation or pain in contact with skin or eyes.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

<b><u>Suitable extinguishing media</u></b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	None known.
<b><u>Specific hazards arising from the chemical</u></b>	None identified.
<b>Hazardous combustion products</b>	Carbon oxides.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Wear protective gloves/clothing and eye/face protection. Avoid contact with eyes, skin and clothing.

**Environmental precautions**

**Environmental precautions** Prevent release to surface water.

**Methods and material for containment and cleaning up**

**Methods for Containment** Dike to collect large liquid spills.

**Methods for Cleaning Up** Absorb with inert material and transfer to containers for disposal.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Handling** Wear personal protective equipment. Avoid contact with eyes, skin and clothing.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep container tightly closed in a dry and well-ventilated place. Do not freeze.

**Incompatible materials** Strong acids. Strong oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide 1310-58-3	n/a	n/a	Ceiling: 2 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Measures** Safety Shower  
Eyewash station  
Ventilation system.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Safety glasses with side-shields. Goggles. Face-shield.

**Skin and Body Protection** Protective gloves. Long sleeved clothing. Apron.

**Respiratory Protection** Not required under normal conditions.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<b>Physical State</b>	Liquid		
<b>Appearance</b>	Clear	<b>Odor</b>	Mild
<b>Color</b>	Light yellow		
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>	
pH	13-14		
Melting point / freezing point		Not determined	
Boiling point / boiling range	>99 °C / >210 °F		
Flash Point	None to boiling	based on components	
Evaporation Rate	<1	(BUAC = 1)	
Flammability (solid, gas)		Not flammable	
Flammability Limit in Air		Not Applicable	
Upper flammability limit			
Lower Flammability Limit			
Vapor pressure		Not determined	
Vapor Density		Not determined	
Specific Gravity	1.15	@ 25°C	
Water Solubility	Soluble		
Solubility in other solvents		Not determined	
Partition coefficient		Not determined	
Autoignition Temperature		Not determined	
Decomposition temperature		Not determined	
Kinematic viscosity		Not determined	
Dynamic viscosity		Not determined	
Explosive Properties	None		
Oxidizing Properties	None		

**Other Information****10. STABILITY AND REACTIVITY**

<b><u>Reactivity</u></b>	Not reactive
<b>Remarks</b>	
<b><u>Chemical stability</u></b>	Stable under recommended storage conditions.
<b><u>Possibility of Hazardous Reactions</u></b>	
Hazardous Reactions	None under normal processing.
Hazardous Polymerization	None under normal processing.
<b><u>Conditions to Avoid</u></b>	Extremes of temperature and direct sunlight
<b><u>Incompatible materials</u></b>	Strong acids. Strong oxidizing agents.
<b><u>Hazardous Decomposition Products</u></b>	
None identified.	

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	Not classified (Based on available data, the classification criteria are not met).
<b>Eye contact</b>	May cause irreversible damage to eyes.

**Skin contact** May cause burns.

**Ingestion** Harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium hydroxide 1310-58-3	= 214 mg/kg ( Rat )	-	-
Sodium silicate 1344-09-8	= 1960 mg/kg ( Rat )	> 4640 mg/kg ( Rabbit )	-

#### Information on toxicological effects

**Symptoms** Swelling and irritation of tissues followed by burns and tissue damage.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Swelling and pain.  
**Serious eye damage/eye irritation** Redness, pain, swelling.  
**Sensitization** No known hazard.  
**Mutagenic Effects** No known hazard.  
**Carcinogenicity** No ingredients are classified as carcinogenic to humans by IARC, OSHA, ACGIH, or NTP.

**Reproductive Toxicity** No known hazard.

**STOT - single exposure** None under normal use conditions.

**STOT - repeated exposure** No known hazard.  
**Aspiration hazard** No known hazard.

**Numerical measures of toxicity-Product Information** Not determined

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

This substance is not classified at this time.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Potassium hydroxide 1310-58-3		LC50= 80 mg/L Gambusia affinis 96 h		
Sodium silicate 1344-09-8		LC50 301 - 478 mg/L Lepomis macrochirus 96 h LC50= 3185 mg/L Brachydanio rerio 96 h		

#### Persistence and degradability

No data available.

#### Bioaccumulation/Accumulation

All components are water soluble, not likely to bioaccumulate.

#### Mobility

Will likely be mobile in the environment due to its water solubility.

Chemical Name	Partition coefficient
Potassium hydroxide 1310-58-3	= 0.65 = 0.83

#### Other Adverse Effects

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Waste Disposal Method** Dispose of in accordance with applicable regulations.

**Contaminated Packaging** Dispose of in accordance with applicable regulations.

Chemical Name	California Hazardous Waste Status
Potassium hydroxide 1310-58-3	Toxic; Corrosive

**14. TRANSPORT INFORMATION**

**DOT** -  
**UN-No** 3266  
**Proper Shipping Name** Corrosive liquid, Basic, Inorganic, N.O.S. (Potassium hydroxide)  
**Hazard Class** 8  
**Packing Group** II  
**Special Provisions**

**IATA** -  
**UN-No** UN3266  
**Proper Shipping Name** Corrosive liquid, Basic, Inorganic, N.O.S. (Potassium hydroxide)  
**Hazard Class** 8  
**Packing Group** II

**IMDG / IMO** -  
**UN-No** UN3266  
**Proper Shipping Name** Corrosive liquid, Basic, Inorganic, N.O.S. (Potassium hydroxide)  
**Hazard Class** 8  
**Packing Group** II

**15. REGULATORY INFORMATION****International Inventories**

**TSCA** Complies  
**DSL** Complies  
**EINECS** Complies  
**ENCS** Complies  
**IECSC** Complies  
**KECL** Complies  
**PICCS** Not determined  
**AICS** Complies

**Legend**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*  
*DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List*  
*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*  
*ENCS - Japan Existing and New Chemical Substances*  
*IECSC - China Inventory of Existing Chemical Substances*  
*KECL - Korean Existing and Evaluated Chemical Substances*  
*PICCS - Philippines Inventory of Chemicals and Chemical Substances*  
*AICS - Australian Inventory of Chemical Substances*

**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any

chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium hydroxide 1310-58-3	1000 lb			X

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Potassium hydroxide 1310-58-3	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

**U.S. State Regulations****U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Potassium hydroxide 1310-58-3	X	X	X

**16. OTHER INFORMATION**

<b>NFPA</b>	Health Hazard 3	Flammability 0	Instability 0	Physical and Chemical Hazards n/a
<b>HMIS</b>	Health Hazard 3	Flammability 0	Physical hazards 0	Personal Precautions C

Prepared by	Product Steward
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Revision Note	
Reason for Revision	Periodic review and update

**Disclaimer**

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 may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**

CleanSafe is a trademark of Vantage Specialties, Inc.