

**1. Identification**

**Product Identifier** Viper Lithium Silicate Densifier Concentrate  
**Other means of identification**  
**Product code** NAS-2580  
**Recommended use** Lithium silicate densifier for concrete.  
**Recommended restrictions** Professional use only.  
**Manufacturer/distributor/supplier/importer information**  
**Company name** Aramsco  
**Address** 4282 South 590 West  
Salt Lake City, UT 84123  
**Telephone** (800) 658-5314  
**Emergency phone number** PERS (800) 633-8253  
24-hour Emergency (800) 633-8253

**2. Hazard(s) Identification**

**Physical hazards** Not classified  
**Health hazards** Skin irritation Category 2  
Eye irritation Category 2  
**Environmental hazards** Not classified  
**OSHA defined hazards** Not listed  
**Label elements**



**Signal word** Warning  
**Hazard statement** Causes skin irritation  
Causes serious eye irritation  
**Precautionary statement**  
**Prevention** Wash hands and exposed skin thoroughly after handling. Wear protective gloves. Wear eye protection/face protection.  
**Response** IF ON SKIN: Wash with plenty of water. Specific treatment (see section 5 of the SDS). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
**Storage**  
**Disposal**  
**Hazard(s) not otherwise classified (HNOC)** None  
**Supplemental information** None

**3. Composition/information on ingredients**

Mixture Component(s)			
Chemical name	CAS number	Purpose	%
Water	7732-18-5	Solvent	10-90%
Lithium Silicate	12627-14-4	Bulking Agent	10-70%
Fluorinated Alcohol	PROPRIETARY	Surfactant	0-1%

## 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
<b>Eye contact</b>	Rinse with water for at least 15 minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting.
<b>Most important symptoms/effects, acute and delayed</b>	Dermatitis. Rash. Causes skin irritation and serious eye irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general support measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> )
<b>Unsuitable extinguishing media</b>	None known
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protecting clothing must be worn in case of fire.
<b>Fire-fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Wear appropriate protective equipment and clothing during clean-up. Wear eye/face protection.
<b>Methods and materials for containment and cleaning up</b>	Caution – spillages may be slippery  Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas.  Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills to original container for re-use. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into areas not consistent with package labeling.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
--------------------------------------	---

**Conditions for safe storage, including any incompatibilities** Store in original tightly closed container. Do not store in extreme conditions.

## 8. Exposure controls/personal protection

**Occupational exposure limits**

None established

**Biological limit values**

None established

**Appropriate engineering controls** Emergency eye wash stations and showers should be readily accessible. Provide natural or mechanical ventilation.

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

**Eye/face protection** Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

**Skin protection**

**Hand protection** Wear appropriate chemical resistant gloves

**Other** Wear long sleeve shirts with pants.

**Respiratory protection** Respiratory protection not required.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations** When using do not smoke or use chewing tobacco. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

## 9. Physical and chemical properties

**Appearance**

**Physical State** Clear liquid

**Color** Colorless

**Odor** Characteristic

**Odor threshold** Not available.

**pH** 10.5-11.4

**Melting/freezing point** Not available.

**Initial boiling point and boiling range** 212°F (100°C)

**Flash point** Does not flash.

**Evaporation rate** Not available.

**Flammability** Not available.

**Flammability Limits**

**Upper** Not available.

**Lower** Not available.

**Vapor pressure** Not available.

**Vapor density** Not available.

**Specific gravity** 1.12

**Solubility in water** Soluble

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** >392°F (200°C)  
**Viscosity** Not available.

## 10. Stability and reactivity

**Reactivity** This product is stable and non-reactive under normal conditions of use.  
**Chemical stability** Material is stable under normal conditions.  
**Possibility of hazardous reactions** Hazardous polymerization does not occur.  
**Conditions to avoid** Heat, flames  
**Incompatible materials** Reactive metals (e.g. sodium, calcium ,zinc), strong acids, oxidizing agents  
**Hazardous decomposition products** Carbon monoxide, carbon dioxide

## 11. Toxicological information

### Information on likely routes of exposure

**Ingestion** Lithium compounds may damage central nervous system resulting in headache and nausea.  
**Inhalation** Mist is irritant to respiratory tract.  
**Skin contact** Repeated and/or prolonged skin contact causes skin irritation.  
**Eye contact** Liquid or mist causes serious eye irritation.  
**Symptoms related to the physical, chemical and toxicological characteristics** Dermatitis. Rash. May cause an allergic skin reaction, skin irritation, serious eye irritation.  
**Acute toxicity** Causes skin irritation and serious eye irritation.

Product Viper Lithium Silicate Densifier Concentrate (CAS mixture)		
Exposure Classification	Route and Species	Test Results
Acute	Oral, rat	LD <sub>50</sub> : >5,000 mg/kg (estimated)
Acute	Dermal, rat	LD <sub>50</sub> : >5,000 mg/kg (estimated)
Acute	Inhalation, rat	ALC (4hr): 33.6 mg/L
*Estimates for product may be based on additional component data not shown		

**Skin corrosion/irritation** Causes skin irritation.  
**Serious eye damage/irritation** Causes serious eye irritation  
**Respiratory sensitization** Not classified.  
**Skin sensitization** Not classified.  
**Germ cell mutagenicity** Not classified.  
**Carcinogenicity** Not considered a carcinogen.  
**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**  
 Not Listed.  
**Reproductive toxicity** Not classified.  
**Specific target organ toxicity – single exposure** Not classified.  
**Specific target organ toxicity – repeated exposure** Not classified.  
**Aspiration hazard** Not considered an aspiration hazard.

## 12. Ecological information

Ecotoxicity		
<b>Product</b> Viper Lithium Silicate Densifier Concentrate (CAS mixture)		
<b>Aquatic Receptor</b>	<b>Species</b>	<b>Test Threshold(s)</b>
Crustacea	Daphnia magna	EC <sub>50</sub> (48-hr): >10,000 mg/L (estimated)
*Estimates for product may be based on additional component data not shown		

<b>Persistence and degradability</b>	Soluble silicates: upon dilution, rapidly depolymerize into molecular species indistinguishable from natural dissolved silica.
<b>Bioaccumulative potential</b>	No data available.
<b>Mobility in soil</b>	Not available
<b>Other adverse effects</b>	The alkalinity of this material may have a local effect on ecosystems sensitive to changes in pH.

## 13. Disposal considerations

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations
<b>Waste from residues/unused product</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may contain product residue, follow label warnings even after container is emptied.

## 14. Transport information

<b>DOT</b>	Not regulated as dangerous goods.
<b>TDG</b>	Not regulated as dangerous goods.
<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods.

## 15. Regulatory information

<b>US federal regulations</b>	.
<b>SARA 302 Extremely hazardous substance</b>	Not listed.
<b>SARA 304 Emergency release notification</b>	Not listed.
<b>SARA 311/312 Hazard Categories</b>	Immediate Hazard - Yes

Delayed Hazard – No  
Fire Hazard – No  
Pressure Hazard – No  
Reactivity Hazard – No  
**SARA 313 (TRI reporting)**  
Not listed.  
**California Proposition 65**



**WARNING:** This product can expose you to chemicals including Pentadecafluorooctanoic acid, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**16. Other information, including date of preparation or last revision**

**Issue date** 6/17/2021  
**Revision date**  
**Version #** 1  
**HMIS® ratings** Health: 1  
Flammability: 0  
Physical hazard: 0

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	<input type="checkbox"/>

**NFPA ratings** Health: 1  
Flammability: 0  
Instability: 0



**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge, and have been obtained from resources believed to be reliable. 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 related 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 by the text.

**Revision information** First issue.