

VaproLiqui-Flash™

Issue Date 2018.08.23

Revision Date 2020.02.07

Revision Number 3.03

SECTION 1 – PRODUCT IDENTIFICATION

Product Identifier

Product Name: VaproLiqui-Flash™

Other means of identification

Other Names/Synonyms: Part No. 38609801/3860500

Recommended use of the chemical and restrictions on use

Recommended use: Restricted to professional users as a sealant

Uses advised against: No information available

Details of the supplier of the safety data sheet

Supplier Address: VAPROSHIELD, LLC
915 26TH Ave. NW, #C-5
Gig Harbor, WA 9335
866-731-7663

Emergency telephone number

Product Information: 8:00 AM – 5:00 PM PST Monday-Friday

1-866-731-7663

24 hour Emergency Contact: 24/7 CHEMTREC:

1-800-424-9300 or 1-703-527-3887

SECTION 2 - HAZARDS IDENTIFICATION

Classification: This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitivity	Category 1
Serious eye damage/eye irritation	Category 2
Reproductive toxicity	Category 1B

Label Elements

EMERGENCY OVERVIEW:

Danger

Hazard statements

Causes serious eye irritation; May cause an allergic skin reaction; May damage fertility or the unborn child



Appearance: viscous

Physical state: Paste/Gel

Odor: Mild

PRECAUTIONARY STATEMENTS:

PREVENTION: Obtain special instructions before use; Do not handle until all safety precautions have been read and understood; Use personal protective equipment as required; Avoid breathing dust/fume/gas/mist/vapors/spray; Contaminated work clothing should not be allowed out of the workplace; Wear protective gloves; Wash face, hands and any exposed skin thoroughly after handling; Wear eye/face protection

RESPONSE: IF exposed or concerned: Get medical advice/attention.

STORAGE: Store locked up

DISPOSAL: Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other Information

78.11% of the mixture consists of ingredient(s) of unknown toxicity

SECTION 3 - COMPOSITION/INFORMATION

Component	CAS-No.	Weight - %	Trade Secret
Limestone	1317-65-3	10-25	*
Calcium Carbonate	471-34-1	20 - 30	*
Carbon Black (if needed)	1333-86-4	1-5	*
Tin catalyst	22673-19-4	0.2 - 0.4	*
Titanium Dioxide (if needed)	13463-67-7	1 - 5	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 - FIRST AID MEASURES

Description of First Aid Measures:

General advice	Show this safety data sheet to the doctor in attendance.
Eye contact	Immediately flush with plenty of water, also under the eyelids. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.
Skin Contact	Wipe off material with a dry cloth. May cause an allergic skin reaction. Wash skin with soap and water. In case of skin irritation or allergic reaction see a physician.
Inhalation	Remove to fresh air. If symptoms persist, call a physician.
Ingestion	Rinse immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician or poison control center immediately.
Self-protection of the first aider	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed:

Symptoms May cause irritation; Burning sensation; Itching; Rashes; Hives.

Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization of susceptible persons. Treat symptomatically.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable Extinguishing Media – Use extinguishing measures that are appropriate to local circumstances and the surround environment.

Unsuitable Extinguishing Media – Caution: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical – Product is or contains a sensitizer; may cause sensitization by skin contact. Uniform Fire Code Sensitizer: Liquid

Hazardous Combustion Products – Carbon oxides

Explosion Data – Sensitivity to Mechanical Impact: NO Sensitivity to Static Discharge: NO

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.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions: Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Environmental precautions: Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleanup

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Soak up with inert absorbent material, pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

SECTION 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Incompatible materials: No known based on information supplied.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	PEL (OSHA)	TLV (ACGIH)	IDLH (NIOSH)
Calcium Carbonate 471-34-1	TWA: 15 mg/m ³ TWA: 5 mg/m ³ (vacated) TWA: 15 mg/m ³ (vacated) TWA: 5 mg/m ³		TWA: 5 mg/m ³ respirable dust TWA: 10 mg/m ³ total dust
Limestone 1317-65-3	TWA: 15 mg/m ³ TWA: 5 mg/m ³ (vacated) TWA: 15 mg/m ³ (vacated) TWA: 5 mg/m ³		TWA: 5 mg/m ³ respirable dust TWA: 10 mg/m ³ total dust
Titanium Dioxide 13463-67-7	TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust	TWA: 10 mg/m ³	IDLH: 5000 mg/m ³
Carbon Black 1333-86-4	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³	TWA: 3 mg/m ³ inhalable fraction	IDLH: 1750 mg/m ³ TWA: 3.5 mg/m ³ TWA: 0.1 mg/m ³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH
Tin 22673-19-4	TWA: 0.1 mg/m ³ Sn (vacated) TWA: 0.1 mg/m ³ Sn (vacated) S*	STEL: 0.2 mg/m ³ Sn TWA: 0.1 mg/m ³ Sn S*	IDLH: 25 mg/m ³ Sn TWA: 0.1 mg/m ³ except Cyhexatin Sn

ACGIH TLV: American Conference of Governmental Hygienists – Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration – Permissible Exposure Limits Immediately Dangerous to Life or Health NIOSH IDLH Immediately Dangerous to Life or Health

Other Information:

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992). See section 15 for national control parameters

Appropriate engineering controls

Engineering Controls

Showers, Eyewash stations, Ventilation systems.

Individual protection measures, such as Personal Protection Equipment

Eye/face protection:

If splashes are likely to occur: wear safety glasses with side shields (or goggles). None required for consumer use.

Skin and body protection:

Wear protective gloves and protective clothing.

Respiratory protection:

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General Hygiene Considerations:

Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse. Wash hands thoroughly after handling. Wear suitable gloves and eye/face protection. Keep away from food, drink and animal feeding stuffs.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical Form:	Paste/Gel
Appearance:	viscous
Color:	black – gray black
Odor:	mild
Odor threshold:	No information available

<u>Property</u>	<u>Values</u>
pH	Not Applicable
Melting point/freezing point	No information available
Boiling point/boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limits in Air	
Upper flammability limits	No information available
Lower flammability limit	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity	1.3 - 1.65
Water solubility	No information available
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Other Information	
Softening point	No information available
VOC Content (g/L)	<30, less water and exempt solvents
Particle size	No information available
Particle size distribution	No information available

SECTION 10 – STABILITY AND REACTIVITY

<u>Reactivity</u>	No data available.
<u>Chemical stability</u>	Stable under recommended storage conditions.
<u>Possibility of hazardous reactions</u>	None under normal processing.
<u>Hazardous polymerization</u>	Hazardous polymerization does not occur.
<u>Conditions to avoid</u>	Moisture will affect product shelf life.
<u>Incompatible materials</u>	None known based on information supplied.
<u>Hazardous decomposition products</u>	None known based on information supplied.

SECTION 11 – TOXICOLOGY INFORMATION

Information on likely routes of exposure

Product Information	May cause irritation.
Inhalation:	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye Contact:	Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to eyes. May cause redness, itching, and pain. May cause temporary eye irritation.
Skin Contact:	Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.
Ingestion:	Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Component Information

Chemical Name	LD50/Oral	LD50/Dermal	Inhalation LC50
Calcium Carbonate 471-34-1	= 6450 mg/kg (Rat)	-	-
Titanium Dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
Carbon Black 1333-86-4	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-

Information on toxicological effects

Symptoms May cause redness and tearing of the eyes; itching, rashes, hives.

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

Sensitization May cause sensitization by skin contact. May cause sensitization of susceptible persons.

Mutagenic Effects No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. This product contains titanium dioxide, which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is a liquid. This product contains carbon black, which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is not in a respirable form.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium Dioxide 13463-67-7	-	Group 2B	-	X
Carbon Black 1333-86-4	A3	Group 2B	-	X

ACGIH (American Conference of Governmental Hygienists) – A3 Animal Carcinogen

IARC (International Agency for Research on Cancer) – Group B Possible Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration) – X Present

Reproductive toxicity Contains a known or suspected reproductive toxin.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Target organ effects Eyes, Respiratory system, Skin, Gastrointestinal tract (GI), Reproductive System, Lungs, Lymphatic System

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Chronic toxicity

No known effect based on information supplied. Contains a known or suspected reproductive toxin. Possible risk of irreversible effects.

Aspiration hazard

No information available.

Numerical measures of toxicity - Product Information

Unknown acute toxicity

Unknown Acute Toxicity (oral) = 8.65%
Unknown Acute Toxicity (dermal) = 59.35%
Unknown Acute Toxicity (inhalation-dust/mist) = 78.11%

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Algae/aquatic Plants	Fish	Toxicity to microorganisms	Crustacea
Carbon Black 1333-86-4				24 h Daphnia magna > 5600 mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal:

This material, as supplied, is not hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it mixed with or otherwise comes in contact with a hazardous waste, if chemical additional are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Do not reuse container. Dispose of contents/containers in accordance with local regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Tin Catalyst CAS# 22673-19-4	Toxic

SECTION 14: TRANSPORTATION INFORMATION

DOT

Not regulated.

Transport hazard class(es)

Not Applicable

TDG

Not regulated.

MEX

Not regulated.

ICAO

Not regulated.

IATA

Not regulated.

Transport hazard class(es)

Not Applicable

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IMDG/IMO Not regulated.
Transport hazard class(es) Not Applicable
RID Not regulated.
ADR Not regulated.
ADN Not regulated.

SECTION 15: REGULATORY INFORMATION

International Inventories

TSCA Not determined
DSL Not determined

Legend:

TSCA - *United States Toxic Substances Control Act Section 8(b) Inventory*

DSL/NDSL - *Canadian Domestic Substances List/Non-Domestic Substances List*

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain a chemical or 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 Yes
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

CWA (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)

CERCLA

This material, as supplied, does not contain any substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

US State Regulations

California Proposition 65

This product contains methanol, which is known by the State of California to cause reproductive harm.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Calcium Carbonate 471-31-1	X	X	X		
Carbon black 1333-86-4	X	X	X		X
Limestone 1317-65-3	X	X	X		
Titanium dioxide 13463-67-7	X	X	X		

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International Regulations

Mexico

Component	Carcinogen Status	Exposure Limits
Titanium dioxide 13463-67-7 (1-5)		Mexico: TWA = 10 mg/m ³ Mexico: STEL = 20 mg/m ³
Tin 14808-60-7 (0.1-1)		Mexico: TWA = 0.1 mg/m ³ Mexico: STEL = 0.2 mg/m ³
Carbon black 1333-86-4 (1-5)		Mexico: TWA = 3.5 mg/m ³ Mexico: STEL = 7 mg/m ³
Calcium Carbonate 471-31-1 (20-30)		Mexico: TWA = 10 mg/m ³ Mexico: STEL = 20 mg/m ³
Limestone 1317-65-3 (10-25)		Mexico: TWA = 10 mg/m ³ Mexico: STEL = 20 mg/m ³

Mexico – Occupational Exposure Limits - Carcinogens

Canada

WHMIS Hazard Class
D2A – Very toxic materials
D2B – Toxic materials



SECTION 16: OTHER INFORMATION

NFPA Health hazards: 2 Flammability: 0 Instability: 0 Physical / chemical Hazard: -

HMIS Health hazards: 2* Flammability: 0 Physical hazards: 0 Personal protection: X

Chronic Hazard Star Legend * = Chronic Health Hazard

Prepared By

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Disclaimer

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End of Safety Data Sheet