

Revision date: 16-Jul-2019

Supersedes: 30-Aug-2018

SDS Number: 12805

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product Identifier****Product name:** BENTONE GEL® VS-5 PC V HV**Other means of identification****Recommended use of the chemical and restrictions on use****Product Use Description:** Rheological additive**Details of the supplier of the safety data sheet****Company/Undertaking Identification**Elementis
469 Old Trenton Road
East Windsor, NJ 08512
USA
Tel: +1 609 443 2500
Fax: +1 609 443 2422Elementis UK Ltd.
c/o Elementis GmbH
Stölberger Str. 370
50933 Cologne, Germany
Tel. +49 (0) 221 2923 2000**Emergency Telephone Number**

For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), call CHEMTREC at: 1-800-424-9300 or 1-703-527-3887

For ALL other inquiries about this product, call Elementis at: 1-609-443-2000 (USA) or +49 (0) 221 2923 2000 (EU)

Product_Stewardship@elementis.com

2. HAZARDS IDENTIFICATION**Classification****OSHA Regulatory Status**

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

Flammable solids

Category 1

Label Elements**EMERGENCY OVERVIEW****Danger**

Flammable solids



Appearance: Gel**Physical state:** Solid**Odor:** Mild**Precautionary Statements - Prevention**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking
 Ground/Bond container and receiving equipment
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)**Other Information**

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components, or components with exposure limits (see section 8)

Components	CAS-No	Weight %
Propylene carbonate	108-32-7	2.5 - 10 %

4. FIRST AID MEASURES**FIRST AID MEASURES****General Advice**

Get medical attention immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.

Inhalation:

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen.

Skin contact:

Wash off immediately with soap and plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.

Eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water. If eye irritation persists, consult a specialist.

Ingestion

If swallowed, seek medical advice immediately and show this SDS or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Protection of first-aiders:

Avoid contact with skin and eyes.

Most important symptoms and effects, both acute and delayed**Most Important Symptoms and Effects**

None.

Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO₂)
Dry powder
Dry sand
Alcohol-resistant foam
Water spray mist or foam

Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

None in particular

Unusual Fire and Explosion Hazards:

May emit toxic fumes under fire conditions

Hazardous combustion products

Carbon monoxide
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
Gaseous hydrogen chloride (HCl)

Explosion data

Explosive properties:

Vapors may form explosive mixtures with air

Reactivity Hazard:

None known

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment.

Other Information: See Section 12 for more information.

Environmental precautions

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Clean-up methods: Take precautionary measures against static discharges. Soak up with inert absorbent material and dispose of as hazardous waste. Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling: Take precautionary measures against static discharges. Remove all sources of ignition.

Avoid contact with skin, eyes and clothing. Avoid breathing mists, dusts, or vapors. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a cool, well-ventilated place. Keep product and empty container away from heat and sources of ignition.
Additional Storage:	Not required under normal use

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

TLV/PEL: Not established

Appropriate engineering controls

Engineering Measures Use only with adequate ventilation

Individual protection measures, such as personal protective equipment

Eye protection	Safety glasses.
Skin and body protection	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place
Respiratory protection:	In case of insufficient ventilation wear suitable respiratory equipment.
Hand protection	Protective gloves, Neoprene gloves, Impervious butyl rubber gloves, Nitrile rubber,
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state:	Solid
Appearance:	Gel
Odor:	Mild
Color:	Light brown
Odor Threshold	No data available

<u>Property</u>	<u>Values</u>	<u>Remarks / • Method</u>
pH	No data available	
Melting point/range:	No data available	
Freezing point:	No data available	
Boiling Point/Range	No data available	
Flash Point	77 °C / 171 °F	ASTM D3278
Evaporation rate	No data available	
Explosion limits:	LEL: 0.52 Vol% UEL: 7.0 Vol%	
Vapor pressure	No data available	

Vapor density	No data available
Density:	1.02 g/cm ³
Water solubility	insoluble
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition temperature	Not self-igniting
Decomposition temperature	No data available
Viscosity:	No data available
Explosive properties:	Vapors may form explosive mixtures with air
Oxidizing Properties	No information available

Other Information

Bulk Density	No data available
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10. STABILITY AND REACTIVITY**Reactivity**

No dangerous reaction known under conditions of normal use

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None known

Conditions to Avoid

Heat, flames and sparks

Incompatible Materials:

Oxidizing agent

Hazardous Decomposition Products

None reasonably foreseeable

11. TOXICOLOGICAL INFORMATION

Product Information	No data is available on the product itself
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Information on likely routes of exposure

Inhalation:	No data available
Eye contact:	No data available
Skin contact:	No data available
Ingestion	No data available

Component Information

Components	LD50/Oral	LD50/Dermal	LC50/inhalation
Propylene carbonate 108-32-7	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5 gm/m ³

Information on Toxicological Effects**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Corrosivity	None
Sensitization	No sensitizing effects known
Mutagenic effects	No data available
Carcinogenic effects:	There are no known carcinogenic chemicals in this product
Reproductive Toxicity:	No data available
Developmental Toxicity	No data available

Chronic Toxicity

Chronic toxicity:	No data is available on the product itself
Other Adverse Effects:	No data available

12. ECOLOGICAL INFORMATION

Product Information There is no data available for this product

Ecotoxicity

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

Components	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Propylene carbonate 108-32-7	EC50: >900 mg/L (72h)	LC50: >1000 mg/L (96h)	EC50: >1000 mg/L (48h)

Components	LC50	EC50	Bioaccumulation Concentration Factor	No Observable Effect Concentration (NOEC)
Propylene carbonate	1000 mg/L (Cyprinus carpio; 96 h semi-static) 5300 mg/L (Leuciscus idus; 96 h static)	500 mg/L (Daphnia magna 48 h) 500 mg/L (Desmodesmus subspicatus; 72 h)		

Persistence and degradability:

No data available

Bioaccumulative potential:

Components	Log Pow
Propylene carbonate	0.48

Mobility

No information available

General Note:

Do not allow product to reach ground water, water course or sewage system.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Waste from residues /unused products	Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with federal, state and local regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

RCRA Hazardous Waste:

RCRA: Characteristic Waste - D001 (ignitable)

14. TRANSPORT INFORMATION**U.S. Department of Transportation Ground (49 CFR):**

UN-No:	1325
Proper shipping name:	'FLAMMABLE SOLID, ORGANIC, N.O.S. (Decamethylcyclopentasiloxane)'
Hazard Class:	4.1
Hazard Labels:	4.1
Packaging group:	II
Marine pollutant:	No

International Air Transport Association (IATA)

UN-No:	1325
Proper shipping name:	Flammable solid, organic, n.o.s. (Decamethylcyclopentasiloxane)
Hazard Class:	4.1
Hazard Labels:	4.1
Packing group:	II

International Maritime Dangerous Goods (IMDG)

UN-No	1325
Proper Shipping Name	FLAMMABLE SOLID, ORGANIC, N.O.S. (Decamethylcyclopentasiloxane)
Hazard Class	4.1
Hazard Labels:	4.1
Packing Group	II
EmS:	F-A, S-G
IMDG - Marine Pollutants :	No

Surface Shipments in Europe (ADR/RID):

Danger code (Kemler):	40
UN-No:	1325
Proper shipping name:	Flammable solid, organic, n.o.s. (Decamethylcyclopentasiloxane)
Hazard Class:	4.1
Packing group:	II
Hazard Labels:	4.1
Environmental hazard mark:	No

15. REGULATORY INFORMATION**International Inventories**

USA (TSCA):	Complies
EU (EINECS):	Complies
EU REACH:	Complies
CANADA (DSL)	Complies
CANADA (NDSL):	Not applicable
JAPAN (ENCS):	Complies
PHILIPPINES (PICCS):	Complies
KOREA (KECL):	Complies
China (IECSC)	Complies
AUSTRALIA (AICS):	Complies
NEW ZEALAND (NZIoC):	Complies
TAIWAN (NECI):	Complies

Legend:

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

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
ENCS - Japan Existing and New Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
NECI - Taiwan National Existing Chemical Inventory

EU-Regulations

For purchases from Elementis EU legal entities, all ingredients are currently registered or exempt under REACH. For purchases from non-EU Elementis legal entities with the intention to export into the EU, please contact your Elementis representative/local office.

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

Fire Hazard
 Acute Health Hazard

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)

TSCA Section 12(b) Export Notification

This product does not contain chemicals that are required to be notified under the TSCA 12(b) Export Notification.

State Regulations (RTK)

California Proposition 65

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

16. OTHER INFORMATION

HMIS:

Health: 1
Flammability: 2
Physical Hazard: 0

This Material Safety Data Sheet 2
contains changes from the previous
version in Sections:
Previous Revision Date: 30-Aug-2018

Key/Legend: N/A: Not applicable
 N/D: Not determined
 ppm: Parts per million
 X: Listed

Prepared by Product Stewardship

The information provided in this Safety Data Sheet is correct to the best of ELEMENTIS' knowledge, information and belief at the date of its publication. The information given is designed only as 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 product designated and may not be valid for such product when used in combination with any other material or in any process, unless specified in this SDS. ELEMENTIS specifically disclaims any liability for any loss, injury or damage which may result from use or misuse of this product. All chemicals should be handled only by competent personnel, within a controlled environment. It is the buyer's/user's responsibility to ensure that his activities comply with all applicable federal, state, provincial and local laws, and to determine the conditions necessary for the safe use of this product. ELEMENTIS urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product.

End of Safety Data Sheet