

Revision date: 28-Dec-2020

Supersedes: New MSDS

SDS Number: 12946

Section 1: PRODUCT AND COMPANY IDENTIFICATION**Chemical Identification** BENTONE GEL® CPS V**Recommended use of the chemical and restrictions on use** Rheological additive**Company Identification**Elementis
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East Windsor, NJ 08512
USA
Tel: 1 (609) 443-2000Elementis UK Ltd.
c/o Elementis GmbH
Stolberger Str. 370
50933 Cologne, Germany
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CO. LTD.
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Songjiang Industrial Zone
201613, Shanghai China
Tel: +86 21 5774 0348
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In China, for Chemical Emergency ONLY (spill, leak, fire, exposure or accident), call Chemical Accident Emergency Consulting Service Hotline at 400-6267911.

Outside of China, for Chemical Emergency ONLY (spill, leak, fire, exposure or accident), call CHEMTREC at 4001-204937 or +1-703-527-3887

For ALL other inquiries about this product, call +86 21 5774 0348

E-mail Address:

Product_stewardship@elementis.com

Section 2: HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW****Appearance:** Gel**Color:** Light brown**Odor:** Mild

H228 - Flammable solid

GHS - Classification

Flammable solids

Category 1

Label Elements**Signal Word****Danger**

Hazard Statements

H228 - Flammable solid

Precautionary Statements**- Prevention**

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

- ResponseIn case of fire: Use CO₂, dry chemical, or foam for extinction**- Storage**

Store in a well-ventilated place. Keep cool

- Disposal

Dispose of contents/ container to an approved waste disposal plant

Physical and chemical hazards H228 - Flammable solid**Health hazards** None**Environmental hazards** None**Other Information**

None known

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**Distinction of Substance or Mixture** Mixture**Hazardous components, or components with exposure limits (see section 8)**

Components	CAS-No	Weight %
Propylene carbonate	108-32-7	2.5 - 10 %
Octamethylcyclotetrasiloxane	556-67-2	< 1 %

Section 4: 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.
Most Important Symptoms and Effects	None.
Advice for emergency responders	Avoid contact with skin and eyes.
Notes to physician	Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES**Extinguishing media**Carbon dioxide (CO₂)

Dry powder

Dry sand

Alcohol-resistant foam

Use water spray or fog; do not use straight streams

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 hazards:

None in particular

Hazardous combustion products

Carbon monoxide

Carbon dioxide (CO₂)Nitrogen oxides (NO_x)

Gaseous hydrogen chloride (HCl)

Unusual Fire and Explosion Hazards:

May emit toxic fumes under fire conditions

Explosive properties:

Vapors may form explosive mixtures with air

Advice for firefighters and protective measures

Wear self contained breathing apparatus for fire fighting if necessary

Section 6: ACCIDENTAL RELEASE MEASURES**Personal precautions**

Keep people away from and upwind of spill/leak. Use personal protective equipment.

Environmental precautions:

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

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 or recovery. Clean contaminated surface thoroughly. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Section 7: HANDLING AND STORAGE**Safe 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.

Storage Conditions

Keep containers tightly closed in a cool, well-ventilated place. Keep product and empty container away from heat and sources of ignition.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Limits**

Components	China - OEL - (PC-TWA)	China- OEL- (MAC)	China - OEL - (PC-STEL)
Octamethylcyclotetrasiloxane	10 ppm		

Process control	Maintain adequate engineering controls and/or ventilation to keep hazardous ingredients below their statutory limits. Use an approved respirator whenever exposure limits are exceeded
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice
Environmental Exposure Controls	No information available.
<u>Personal Protection:</u>	
Respiratory protection:	In case of insufficient ventilation wear suitable respiratory equipment
Hand protection	Protective gloves Neoprene gloves
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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid	
Appearance:	Gel	
Color:	Light brown	
Odor:	Mild	
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% : 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	No data available	
Decomposition temperature	No data available	
Viscosity:	No data available	
Explosive properties:	Vapors may form explosive mixtures with air	
Oxidizing Properties	No information available	
Bulk Density	No data available	

Section 10: STABILITY AND REACTIVITY

Reactivity
No dangerous reaction known under conditions of normal use

Stability
Stable under recommended storage conditions.

Explosion data:

Vapors may form explosive mixtures with air

Hazardous Reactions

None known

Conditions to Avoid

Heat, flames and sparks

Incompatible Materials:

Oxidizing agent

Hazardous Decomposition Products

None reasonably foreseeable

Section 11: TOXICOLOGICAL INFORMATION**Acute Toxicity****Product Information**

No data is available on the product itself

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	LC50/inhalation	LD50/Dermal
Propylene carbonate	> 5000 mg/kg (Rat)	> 5 gm/m ³	> 2000 mg/kg (Rabbit)
Octamethylcyclotetrasiloxane	1540 mg/kg	> 12.7 mg/kg/4hrs (rat) > 17.6 mg/L/1hr (rat)	> 2400 mg/kg (rat) 794 uL/kg (rabbit)

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

Corrosivity No data available

Sensitization No data available

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

Target Organ Effects: None known.

Section 12: ECOLOGICAL INFORMATION

Product Information

There is no data available for this product

NO.

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	EC50: >900 mg/L (72h)	LC50: >1000 mg/L (96h)	EC50: >1000 mg/L (48h)
Octamethylcyclotetrasiloxane		1000 mg/L: LC50 96 h Lepomis macrochirus 500 mg/L: LC50 96 h Brachydanio rerio	EC50: 25.2 mg/L (24 h)

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)		
Octamethylcyclotetrasiloxane	500 mg/L (Brachydanio rerio; 96 h) 1000 mg/L (Lepomis macrochirus; 96 h)	25.2 mg/L (Daphnia magna 24 h)		

Persistence and degradability: No data available**Bioaccumulative potential:** No data available**Biodegradability:** No data available

Components	Log Pow
Propylene carbonate	0.48
Octamethylcyclotetrasiloxane	5.1

Mobility

No data available

Components	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Octamethylcyclotetrasiloxane	Category 1	Category 1	

General Note: Do not allow product to reach ground water, water course or sewage system.**Section 13: DISPOSAL CONSIDERATIONS****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.**Section 14: TRANSPORT INFORMATION****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
Hazard Labels: 4.1
Packing group: II
Environmental hazard mark: 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
IMDG - Marine Pollutants :	No
Environmental hazard mark:	No
EmS:	F-A, S-G

Section 15: REGULATORY INFORMATION**The regulations, provisions and standards specific for the chemical are listed as follows:**

- Regulations on the Safe Management of Hazardous Chemicals in China (Decree 591 of the State Council of China in 2011)
- Measures for Environmental Management of New Chemical Substances (Order No. 7 (2010) of Ministry of Environmental Protection)
- Provisions of the Regulations for the Safe Handling of Chemicals in the Workplace
- Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste
- Occupational exposure limits for hazardous agents in the workplace Part 1: Chemical hazardous
- Rules for classification and labelling of chemicals
- Guidance on the compilation of safety data sheet for chemical products

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.

International Inventories

USA (TSCA):	Complies
EU (EINECS):	Complies
EU REACH:	Complies
CANADA (DSL)	Complies
CANADA (NDSL):	Not applicable
JAPAN (ENCS):	Complies
AUSTRALIA (AICS):	Complies
China (IECSC)	Complies
KOREA (KECL):	Complies
NEW ZEALAND (NZIoC):	Complies
PHILIPPINES (PICCS):	Complies
TAIWAN (TCSI):	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
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
ENCS - Japan Existing and New Chemical Substances
AICS - Australian Inventory of Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
PICCS - Philippines Inventory of Chemicals and Chemical Substances
TCSI - Taiwan Chemical Substance Inventory

Section 16: OTHER INFORMATION

Prepared by Product Stewardship

Issuing Date: 28-Dec-2020

Previous Revision Date: No data available.

Sources of key data used to compile the safety data sheet: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

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End of Safety Data Sheet