

Safety Data Sheet PP2-OE43 Date of issue: 01/16/2015 Version: 1.0

SECTION 1: Identification of the subs	tance/mixture and of the company/undertaking					
I.1. Product identifier						
Product form	: Mixture					
Physical state	: Liquid					
Product name	: GELEST OE™ 43					
Product code	: PP2-OE43					
	: VINYL MODIFIED SILICA Q RESIN in POLY(DIMETHYLSILOXANE), VINYL TERMINATE					
	with (part B) HYDRIDE FUNCTIONAL CROSSLINKER; RESIN REINFORCED VINYL TERMINATED POLYDIMETHYLSILOXANE					
Chemical family	: ORGANOSILOXANE					
.2. Relevant identified uses of the substa	ance or mixture and uses advised against					
Jse of the substance/mixture	: Chemical intermediate For research and industrial use only					
I.3. Details of the supplier of the safety d	ata sheet					
<b>GELEST, INC.</b> 11 East Steel Road Morrisville, PA 19067 <b>USA</b> T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 A <u>info@gelest.com</u> - <u>www.gelest.com</u>	M - 5:30 PM EST					
1.4. Emergency telephone number						
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)					
SECTION 2: Hazards identification						
2.1. Classification of the substance or mi	xture					
Classification (GHS-US)						
Not classified 2.2. Label elements						
GHS-US labeling No labeling applicable						
2.3. Other hazards						
lo additional information available						
2.4. Unknown acute toxicity (GHS-US)						
No data available						
SECTION 3: Composition/information	on ingredients					
3.1. Substance						
Not applicable						
3.2. Mixture						
Name	Product identifier % Classification (GHS-US)					
Vinyl terminated dimethyl-diphenylsiloxane copolymer	Classification (GN3-03)           (CAS No) 68951-96-2         > 95         Not classified					
Vinyl modified Q silica resin	(CAS No) 68584-83-8 < 30 Not classified					
Methylhydrosiloxane-dimethylsiloxane copolymer, trimethylsiloxane terminated	(CAS No) 68037-59-2 < 10 Not classified					
SECTION 4: First aid measures						
.1. Description of first aid measures						
First-aid measures general	: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if r available show packaging or label.					
First-aid measures after inhalation	<ul> <li>Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you fee unwell, seek medical advice.</li> </ul>					
First-aid measures after skin contact	: Wash with plenty of soap and water.					

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First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Get medical advice/attention.				
4.2. Most important symptoms and eff	ects, both acute and delayed				
Symptoms/injuries after inhalation	: No information available.				
Symptoms/injuries after skin contact	: May cause skin irritation.				
Symptoms/injuries after eye contact	: May cause eye irritation.				
Symptoms/injuries after ingestion	: No information available.				
4.3. Indication of any immediate medic	cal attention and special treatment needed				
No additional information available					
SECTION 5: Firefighting measures					
5.1. Extinguishing media					
Suitable extinguishing media	: Water spray. Water fog. Foam. Carbon dioxide. Dry chemical.				
5.2. Special hazards arising from the s	ubstance or mixture				
Fire hazard	: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.				
5.3. Advice for firefighters					
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.				
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapor and mist.				
SECTION 6: Accidental release me	asures				
	equipment and emergency procedures				
6.1.1. For non-emergency personnel					
Emergency procedures	: Evacuate unnecessary personnel.				
5.1.2. For emergency responders					
Protective equipment	: Equip cleanup crew with proper protection.				
6.2. Environmental precautions					
	tify authorities if liquid enters sewers or public waters.				
6.3. Methods and material for containr					
Methods for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal.				
6.4. Reference to other sections					
See Heading 8. Exposure controls and person	al protection.				
SECTION 7: Handling and storage					
7.1. Precautions for safe handling					
Precautions for safe handling	: Avoid all eye and skin contact and do not breathe vapor and mist.				
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.				
7.2. Conditions for safe storage, inclue	ding any incompatibilities				
Storage conditions	: Keep container tightly closed.				
ncompatible materials	: Alkalis. Metal salts. Oxidizing agent. Precious metals.				
Storage area	: Store in a well-ventilated place. Store away from heat.				
7.3. Specific end use(s)					
No additional information available					
SECTION 8: Exposure controls/per	sonal protection				
8.1. Control parameters					
No additional information available					
3.2. Exposure controls					
Appropriate engineering controls	: Provide local exhaust or general room ventilation.				
Personal protective equipment	: Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should b available in the immediate vicinity of any potential exposure.				
Hand protection	: Neoprene or nitrile rubber gloves.				
Eye protection	: Chemical goggles. Contact lenses should not be worn.				
Skin and body protection	: Wear suitable protective clothing.				

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Respiratory protection

: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified organic vapor (black cartridge) respirator.

### SECTION 9: Physical and chemical properties

SECTION 9. Physical and chemica	i properties
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Appearance	: Clear liquid.
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
Refractive index	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: <-60 °C
Freezing point	: No data available
Boiling point	: > 205 °C
Flash point	: 220 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: < 1 mm Hg @ 20°C
Relative vapor density at 20 °C	: No data available
Relative density	: 1.01
Solubility	: Insoluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: 1000 - 4000 cSt
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

- 9.2. Other information
- No additional information available

OFOTION 40. Ctobility and reactivity				
SECTION 10: Stability and reactivit	ly			
10.1. Reactivity				
No additional information available				
10.2. Chemical stability				
Stable in sealed containers stored under a dry	inert atmosphere.			
10.3. Possibility of hazardous reactions	3			
No additional information available				
10.4. Conditions to avoid				
Heat. Open flame. Sparks.				
10.5. Incompatible materials				
Alkalis. Metal salts. Oxidizing agent. Precious metals.				
10.6. Hazardous decomposition products				
Organic acid vapors. Silicon dioxide.				
SECTION 11: Toxicological information				
11.1. Information on toxicological effec	ts			
Acute toxicity	: Not classified			
Skin corrosion/irritation	: Not classified			
Serious eye damage/irritation	: Not classified			
Respiratory or skin sensitization	: Not classified			
	: Not classified			
Germ cell mutagenicity				

Carcinogenicity

: Not classified

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Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: No information available.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: No information available.
<b>SECTION 12: Ecological information</b>	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Effect on ozone layer	: No additional information available
Effect on the global warming	: No known ecological damage caused by this product.
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Waste disposal recommendations	: Incinerate. Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
14.1. UN number	
Not regulated for transport.	
14.2. UN proper shipping name	
Not applicable	
14.3. Additional information	
Other information	: No supplementary information available.
Transport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory information	n
15.1. US Federal regulations	
Vinyl modified Q silica resin (68584-83-8)	
Listed on the United States TSCA (Toxic Subst	tances Control Act) inventory
•	olymer, trimethylsiloxane terminated (68037-59-2)
Listed on the United Otates TOOA (Tavia Outed	
	tances Control Act) inventory
Vinyl terminated dimethyl-diphenylsiloxane	tances Control Act) inventory copolymer (68951-96-2)
	tances Control Act) inventory copolymer (68951-96-2)

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Vinyl modified Q silica resin (68584-83-8)				
Listed on the AICS (Australian Inventory of Chemical Substances)				
Listed on the Canadian DSL (Domestic Sustances List)				
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)				
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)				
Listed on the Korean ECL (Existing Chemicals List)				
Listed on NZIoC (New Zealand Inventory of Chemicals)				
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)				
Methylhydrosiloxane-dimethylsiloxane copolymer, trimethylsiloxane terminated (68037-59-2)				
Listed on the AICS (Australian Inventory of Chemical Substances)				
Listed on the Canadian DSL (Domestic Sustances List)				
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)				
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory				
Listed on the Korean ECL (Existing Chemicals List)				
Listed on NZIoC (New Zealand Inventory of Chemicals)				
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)				
Vinyl terminated dimethyl-diphenylsiloxane copolymer (68951-96-2)				
Listed on the AICS (Australian Inventory of Chemical Substances)				
Listed on the Canadian DSL (Domestic Sustances List)				
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)				
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory				
Listed on the Japanese ISHL (Industrial Safety and Health Law)				
Listed on the Korean ECL (Existing Chemicals List)				
Listed on NZIoC (New Zealand Inventory of Chemicals)				
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)				

#### 15.3. US State regulations

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U.S California - Proposition 65 - Carcinogens List		No	No		
U.S California - Proposition 65 - Developmental Toxicity		No			
U.S California - Proposition 65 - Reproductive Toxicity - Female		No			
U.S California - Propositio Toxicity - Male	n 65 - Reproductive	No			
Vinyl modified Q silica res	in (68584-83-8)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)	
No	No	No	No		
Methylhydrosiloxane-dime	thylsiloxane copolymer, tr	imethylsiloxane terminated (68	8037-59-2)		
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)	
No	No	No	No		
Vinyl terminated dimethyl-diphenylsiloxane copolymer (68951-96-2)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)	
No	No	No	No		

#### **SECTION 16: Other information**

Abbreviations and acronyms

: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

#### HMIS III Rating

Health Flammability Physical : 1 Slight Hazard - Irritation or minor reversible injury possible

- : 1 Slight Hazard
- : 0 Minimal Hazard

Prepared by safety and environmental affairs.

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SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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