

Safety Data Sheet PP2-OE46.1 Date of issue: 12/21/2015 Version: 1.1

SECTION 1: Identification of the su	bstance	/mixture and of the compan	y/undertaking	
1.1. Product identifier				
Product form	: Mixtu	ire		
Physical state	: Liqui	d		
Product name	: GELEST OE® 46.1			
Product code	: PP2-	: PP2-OE46.1		
Synonyms	COP	: 2-PART SILICONE ELASTOMER; VINYL MODIFIED POLY(DIMETHYLSILOXANE) COPOLYMER, WITH (PART B) HYDRIDE FUNCTIONAL CROSSLINKER; GELEST® OE 46.1 2-PART SILICONE OPTICAL ENCAPSULANT		
Chemical family	: ORG	ANOSILOXANE		
1.2. Relevant identified uses of the sub	stance or	mixture and uses advised against		
Use of the substance/mixture		nical intermediate esearch and industrial use only		
1.3. Details of the supplier of the safety	<i>i</i> data she	et		
GELEST, INC.	dutu one			
11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 info@gelest.com) AM - 5:30	PM EST		
1.4. Emergency telephone number				
Emergency number	: CHEI	MTREC: 1-800-424-9300 (USA); +1 7	703-527-3887 (Inter	national)
 2.1. Classification of the substance or GHS-US classification Not classified 2.2. Label elements GHS-US labeling No labeling applicable 2.3. Other hazards No additional information available 2.4. Unknown acute toxicity (GHS US) No data available 	mixture			
SECTION 3: Composition/Informati	on on in	aradianta		
•		greatents		
3.1. Substance				
Not applicable				
3.2. Mixture				
Name		Product identifier	%	GHS-US classification
Part A: Phenyl(chlorophenyl)siloxane-dimethylsiloxa	ne	(CAS No) 1627113-90-9	> 97	Not classified
copolymer, vinyldimethylsiloxane terminated Part A contains the following additional component: dioxide, amorphous, hexamethyldisilazane treated	Silicon	(CAS No) 68909-20-6/7631-86-9	10 - 20	Not classified
Part B contains the following additional component: Polyphenyl(dimethylhydrosiloxy)siloxane, hydride te	rminated	(CAS No) 68952-30-7	< 10	Not classified
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general	medi	ove contaminated clothing and shoes cal advice immediately (show the labe able show packaging or label.		
First-aid measures after inhalation		ove victim to fresh air and keep at res ill, seek medical advice.	t in a position comf	ortable for breathing. If you feel
First-aid measures after skin contact	: Wash	n with plenty of soap and water. Get n	nedical advice/atter	ntion.

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First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Get medical advice/attention.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries after inhalation	: No information available.
Symptoms/injuries after skin contact	: May cause mild skin irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: No information available.
4.3. Indication of any immediate med	lical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	S
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Water fog. Foam. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media	: None known.
5.2. Special hazards arising from the	substance 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	: Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.
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 m	easures
	e equipment and emergency procedures
	- churburger and Serry brockward
6.1.1. For non-emergency personnel	Were protocilius convictors described in Castier 0
Protective equipment	: Wear protective equipment as described in Section 8.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
	lotify authorities if liquid enters sewers or public waters.
· ·	
6.3. Methods and material for contain	Contain any spills with dikes or absorbents to prevent migration and entry into sewers or
For containment	streams.
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 perso	onal protection.
SECTION 7: Handling and storage	9
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid all eye and skin contact and do not breathe vapor and mist. Use only in well ventilated areas.
Hygiene measures	: Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, incl	uding any incompatibilities
Storage conditions	: Keep container tightly closed.
Incompatible 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	
	program protection
SECTION 8: Exposure controls/pe	
8.1. Control parameters	

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	CGIH TWA (mg/m³) SHA PEL (TWA) (mg/m³)	0.1 mg/m ³ (total dust containing <1% quartz) 15 mg/m ³ (nuisance dust)
	SHAPEL (TWA) (mg/m ³)	15 mg/m ³ (nuisance dust)
8.2. Exposure controls	. Drevide le sel subsust en s	
Appropriate engineering controls	: Provide local exhaust or g	
Personal protective equipment		posure. Emergency eye wash fountains and safety showers should be vicinity of any potential exposure.
Hand protection	: Neoprene or nitrile rubber	gloves.
Eye protection	: Chemical goggles. Contac	t lenses should not be worn.
Skin and body protection	: Wear suitable protective c	lothing.
Respiratory protection		nhalation may occur from use, respiratory protection equipment is rtified organic vapor (black cartridge) respirator.
SECTION 9: Physical and c	hemical properties	
	vsical and chemical properties	
Physical state	: Liquid	
Appearance	Clear liquid.	
Molecular mass	: (mixture)	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
Refractive index	: No data available	
bH	: No data available	
Relative evaporation rate (butyl acet		
Melting point	: < -60 °C	
Freezing point	: No data available	
	: > 205 °C	
Boiling point	: 220°C	
Flash point		
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	: 1.19	
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	
Explosion limits	: No data available	
9.2. Other information		
No additional information available		
SECTION 10: Stability and	reactivity	
10.1. Reactivity		
No additional information available		
10.2. Chemical stability	nder e devinert etweenher-	
Stable in sealed containers stored u		
10.3. Possibility of hazardous No additional information available	reactions	
10.4. Conditions to avoid		
Heat. Open flame. Sparks.		
10.5. Incompatible materials	Procious motols	
Alkalis. Metal salts. Oxidizing agent.	Frecious metals.	

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SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Part A contains the following additional com	ponent: Silicon dioxide, amorphous, hexamethyldisilazane treated (68909-20-6/7631-86-9)
LD50 oral rat	> 5000 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Part A contains the following additional com	ponent: Silicon dioxide, amorphous, hexamethyldisilazane treated (68909-20-6/7631-86-9)
IARC group	3 - Not classifiable
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 mild skin irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: No information available.
SECTION 12: Ecological information	
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	S
13.1. Waste treatment methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.
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	

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SECTION 15: Regulatory information

15.1. US Federal regulations

Part B contains the following additional component: Polyphenyl(dimethylhydrosiloxy)siloxane, hydride terminated (68952-30-7) Listed on the United States TSCA (Toxic Substances Control Act) inventory

Part A: Phenyl(chlorophenyl)siloxane-dimethylsiloxane copolymer, vinyldimethylsiloxane terminated (1627113-90-9) Not listed on the United States TSCA (Toxic Substances Control Act) inventory

Part A contains the following additional component: Silicon dioxide, amorphous, hexamethyldisilazane treated (68909-20-6/7631-86-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

Part B contains the following additional component: Polyphenyl(dimethylhydrosiloxy)siloxane, hydride terminated (68952-30-7)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian NDSL (Non-Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Part A: Phenyl(chlorophenyl)siloxane-dimethylsiloxane copolymer, vinyldimethylsiloxane terminated (1627113-90-9)

Part A contains the following additional component: Silicon dioxide, amorphous, hexamethyldisilazane treated (68909-20-6/7631-86-9)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances 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 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)

Listed on Turkish inventory of chemical

15.3. US State regulations

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U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	

Part B contains the following additional component: Polyphenyl(dimethylhydrosiloxy)siloxane, hydride terminated (68952-30-7)				
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	Non-significant risk level (NSRL)
No	No	No	No	
Part A: Phenyl(chlorophen	Part A: Phenyl(chlorophenyl)siloxane-dimethylsiloxane copolymer, vinyldimethylsiloxane terminated (1627113-90-9)			
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	Non-significant risk level (NSRL)
No	No	No	No	
Part A contains the following additional component: Silicon dioxide, amorphous, hexamethyldisilazane treated (68909-20-6/7631-86-9)				
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	Non-significant risk level (NSRL)
No	No	No	No	

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SECTION 16: Other information	on
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	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flommobility	· 1 Slight Hazard

Flammability Physical : 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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