

Safety Data Sheet DBP-V052 Date of issue: 02/19/2015 Version: Version: 1.0

SECTION 1: Identification of the substan	nce/mixture and of the company/und	ertaking	
1.1. Product identifier			
Product form : S	Substance		
Physical state : L	iquid		
	DIMETHYLSILOXANE-VINYLMETHYLSILOXANE BLOCK COPOLYMER	-(PROPY	LENE OXIDE-ETHYLENE OXIDE)
Product code : D	BP-V052		
	0.5% VINYLMETHYLSILOXANE)-(DIMETHYLSIL SLYCOL-ran- PROPYLENE GYCOL)MONOBUTY		
Chemical family : C	ORGANOSILOXANE		
1.2. Relevant identified uses of the substanc	e or mixture and uses advised against		
	chemical intermediate for research use only		
1.3. Details of the supplier of the safety data	sheet		
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - info@gelest.com 1.4. Emergency telephone number	5:30 PM EST		
	NUENTREC: 4 000 404 0000 (UCA): 14 700 507	2007 (late	
Emergency number : C	CHEMTREC: 1-800-424-9300 (USA); +1 703-527	-3887 (Inte	emational)
SECTION 2: Hazards identification			
2.1. Classification of the substance or mixtu	e		
Classification (GHS-US) Not classified			
GHS-US labeling No labeling applicable			
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS-US)			
No data available			
SECTION 3: Composition/information or	ingredients		
	ringretients		
3.1. Substance	lehmer		
Name : E	'olymer DIMETHYLSILOXANE-VINYLMETHYLSILOXANE SLOCK COPOLYMER	-(PROPY	LENE OXIDE-ETHYLENE OXIDE)
CAS No : N	lot found		
Name	Product identifier	%	Classification (GHS-US)
Dimethylsiloxane-vinylmethylsiloxane-(propylene oxide- ethylene oxide) block copolymer	(CAS No) Not found	> 95	Not classified
Octamethylcyclotetrasiloxane	(CAS No) 556-67-2	< 2	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2B, H320

3.2. Mixture

Not applicable

Safety Data Sheet

SECTION 4: First aid measures					
4.1. 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 not available show packaging or label.				
First-aid measures after inhalation :	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.				
First-aid measures after skin contact :	Wash with plenty of soap and water.				
First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses 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 effects, 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 medical at	tention 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 subst	ance 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 measu	res				
6.1. Personal precautions, protective equip					
6.1.1. For non-emergency personnel					
o v 1	Evacuate unnecessary personnel.				
0					
6.1.2. For emergency responders					
	Equip cleanup crew with proper protection.				
6.2. Environmental precautions					
Prevent entry to sewers and public waters. Notify an	uthorities if liquid enters sewers or public waters.				
6.3. Methods and material for containment					
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 personal 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, including any incompatibilities					
Storage conditions : Keep container tightly closed.					
Incompatible materials : Oxidizing agent.					
Storage area : Store in a well-ventilated place. Store away from heat.					
7.3. Specific end use(s)					
No additional information available					

Safety Data Sheet

SECTION 8: Exposure controls/per	sonal protection
8.1. Control parameters	
No additional information available	
8.2. 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 be available in the immediate vicinity of any potential exposure.
Hand protection	: Neoprene or nitrile rubber gloves.
Eye protection	: Safety glasses. Contact lenses should not be worn.
Skin and body protection	: Wear suitable protective clothing.
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
9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Appearance	: Clear liquid. Viscous.
Molecular mass	: 8000 - 10000 g/mol
Color	: Pale yellow.
Odor	: No data available
Odor threshold	: No data available
Refractive index	: 1.418
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: <mark>-30 °C</mark>
Freezing point	: No data available
Boiling point	: > 205 °C
Flash point	: > 110 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: < 5 mm Hg
Relative vapor density at 20 °C	: No data available
Relative density	: 0.99
VOC content	: <3%
Solubility	: Insoluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: 500 - 600 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

SECTION 10: Stability and reactivity			
10.1.	Reactivity		
No additional information available			
10.2.	Chemical stability		
Stable.			
10.3.	Possibility of hazardous reactions		
No addit	tional information available		

Safety Data Sheet

10.4. Conditions to avoid			
Heat. Open flame. Sparks.			
10.5. Incompatible materials			
Oxidizing agent.			
10.6. Hazardous decomposition products			
Formaldehyde. Organic acid vapors. Silicon dioxi	de.		
SECTION 11: Toxicological informati	on		
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
Octamethylcyclotetrasiloxane (556-67-2)			
LD50 oral rat	1540 mg/kg		
LD50 dermal rat	1770 mg/kg		
LD50 dermal rabbit	794 μl/kg		
LC50 inhalation rat (mg/l)	36 g/m ³ (Exposure time: 4 h)		
ATE US (oral)	1540.000 mg/kg body weight		
ATE US (dermal)	1770.000 mg/kg body weight		
ATE US (vapors)	36.000 mg/l/4h		
ATE US (dust, mist)	36.000 mg/l/4h		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Not classified		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
	This material was tested in a bacterial mutragenicity assay (Ames test) and was found to be weakly mutagenic.		
Carcinogenicity	: Not classified		
Reproductive toxicity	Not classified		
Specific target organ toxicity (single exposure)	: Not classified		
Specific target organ toxicity (repeated exposure)	: Not classified		
Aspiration hazard	: Not classified		
Potential Adverse human health effects and	: Repeated inhalation of low concentration respirable aerosols of the alkyleneoxide component of		
symptoms	this material (0.3 mg/m3 and higher produced injury in the lungs of rats.		
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.		
SECTION 12: Ecological information			
12.1. Toxicity			
Octamethylcyclotetrasiloxane (556-67-2)	> 500 mg// (Exposure time: 06 h. Species: Brachydania raria)		
LC50 fish 2	 > 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio) > 1000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus) 		
12.2. Persistence and degradability			
Octamethylcyclotetrasiloxane (556-67-2)			
Persistence and degradability	May cause long-term adverse effects in the environment.		
12.3. Bioaccumulative potential			
Octamethylcyclotetrasiloxane (556-67-2)			
BCF fish 1	12400		
Log Pow	5.1		
12.4. Mobility in soil			
No additional information available			
43.5 Other advance offerste			
12.5. Other adverse effects	· No additional information quailable		
Effect on ozone layer	: No additional information available		

Safety Data Sheet

Effective the elebel operation	All because and a first damages and have been dead			
Effect on the global warming	: No known ecological damage caused by this product.			
SECTION 13: Disposal consideration	bns			
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	n			
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	bn			
15.1. US Federal regulations				
DIMETHYLSILOXANE-VINYLMETHYLSILO	XANE-(PROPYLENE OXIDE-ETHYLENE OXIDE) BLOCK COPOLYMER (Not found)			
TSCA Exemption/Exclusion	CAUTION: This material is supplied for research and development purposes subject to the			
	R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR			
	720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r)			
	is not permitted in the United States.			
Dimethylsiloxane-vinylmethylsiloxane-(pro	opylene oxide-ethylene oxide) block copolymer (Not found)			
Not listed on the United States TSCA (Toxic	Substances Control Act) inventory			
Octamethylcyclotetrasiloxane (556-67-2)				
Listed on the United States TSCA (Toxic Sub	stances Control Act) inventory			
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.			
15.2. International regulations				
Octamethylcyclotetrasiloxane (556-67-2)				
Listed on the AICS (Australian Inventory of C	hemical Substances)			
Listed on the Canadian DSL (Domestic Susta				
	ical 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 Ch	emicals and Chemical Substances)			
15.3. US State regulations				
DIMETHYLSILOXANE-VINYLMETHYLSILOX	ANE-(PROPYLENE OXIDE-ETHYLENE OXIDE) BLOCK COPOLYMER(Not found)			
U.S California - Proposition 65 - Carcinogens	s List No			
U.S California - Proposition 65 - Developmer Toxicity	ntal No			
U.S California - Proposition 65 - Reproductiv Toxicity - Female	e No			
U.S California - Proposition 65 - Reproductiv Toxicity - Male	e No			
Dimethylsiloxane-vinylmethylsiloxane-(pro	pylene oxide-ethylene oxide) block copolymer (Not found)			
U.S California - U.S California				

U.S. - California -

Proposition 65 -

Carcinogens List

No

U.S. - California -

Reproductive Toxicity -

Proposition 65 -

Female

No

U.S. - California -

Developmental Toxicity

Proposition 65 -

No

U.S. - California -

Reproductive Toxicity -

Proposition 65 -

Male

No

No significance risk level

(NSRL)

Safety Data Sheet

Octamethylcyclotetrasiloxane (556-67-2)				
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	
Octamethylcyclotetrasiloxane (556-67-2)				
U.S Maine - Chemicals of High Concern U.S Minnesota - Chemicals of High Concern U.S Minnesota - Chemicals of High Concern - Persistent Bioaccumulative Toxins U.S Oregon - Priority Persistent Pollutant - Tier I - Persistent Pollutants U.S Texas - Effects Screening Levels - Long Term U.S Texas - Effects Screening Levels - Short Term				

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.

Full text of H-phrases::

un (0)		
	Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
	Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
	Flam. Liq. 3	Flammable liquids Category 3
	H226	Flammable liquid and vapor
	H302	Harmful if swallowed
	H312	Harmful in contact with skin
	H320	Causes eye irritation

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.

Date of issue: 02/19/2015 Version: 1.0

SDS US (GHS HazCom 2012) - Custom

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

The information contained in this document has been gathered from reference materials and/or Gelest, Inc. test data and is to the best knowledge and belief of Gelest, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Gelest, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specifications.

© 2015 Gelest Inc. Morrisville, PA 19067