

Safety Data Sheet VAT-4326 Date of issue: 10/21/2014 Version Version: 1.0

ECTION 1: Identification of the substar 1. Product identifier						
	ubstance					
	: Liquid : (3-5% VINYLMETHYLSILOXANE)-(35-40% OCTYLMETHYLSILOXANE)-					
	DIMETHYLSILOXANE TERPOLYMER					
	AT-4326					
Synonyms : V	INYLMETHYLSILOXANE COPOLYMER					
	: ORGANOSILOXANE					
.2. Relevant identified uses of the substance	or mixture and uses advised against					
	or research and industrial use only					
	chemical intermediate					
.3. Details of the supplier of the safety data	sheet					
SELEST, INC.						
1 East Steel Road						
forrisville, PA 19067						
JSA ⁻ 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM	5:30 PM EST					
215-547-1015 - F 215-547-2464 - (M-F). 8.00 AM - 5 <u>ifo@gelest.com</u> - <u>www.gelest.com</u>	0.001 W LOT					
.4. Emergency telephone number						
	HEMTREC: 1-800-424-9300 (USA); +1 703-527-	3887 (Inte	ernational)			
ECTION 2: Hazards identification						
1. Classification of the substance or mixtur	e					
Classification (GHS-US)						
lot classified						
.2. Label elements						
GHS-US labeling						
No labeling applicable						
.3. Other hazards						
lo additional information available						
.4. Unknown acute toxicity (GHS-US)						
lo data available						
SECTION 3: Composition/information or	n ingredients					
.1. Substance						
ubstance type : P	olymer					
	3-5% VINYLMETHYLSILOXANE)-(35-40% OCTY	LMETHY	LSILOXANE)-			
CAS No : 5	97543-32-3					
Name	Product identifier	%	Classification (GHS-US)			
(Vinylmethylsiloxane)-(octylmethylsiloxane)-dimethylsiloxan- terpolymer	e (CAS No) 597543-32-3	> 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			
	1	1	, 1020			

Not applicable

4.1. Description of first aid measures First-aid measures general	ng and shoes. In case of accident or if you fe (show the label where possible). If possible sl	
SECTION 4: First aid measures		

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First-aid measures after inhalation	: Remove 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, 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	effects, both acute and delayed
Symptoms/injuries after inhalation	: May be harmful if inhaled.
Symptoms/injuries after skin contact	: May cause mild skin irritation.
Symptoms/injuries after eye contact	: May cause mild eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate me	dical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	9S
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	e 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	: 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 m	neasures
6.1. Personal precautions, protectiv	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
6.2. Environmental precautions	
Prevent entry to sewers and public waters.	Notify authorities if liquid enters sewers or public waters.
6.3. Methods and material for contain	nment and cleaning up
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 pers	onal protection.
SECTION 7: Handling and storag	e
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, inc	luding 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	
	or sonal protection
SECTION 8: Exposure controls/p	
8.1. Control parameters	
No additional information available	

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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 chemica 9.1. Information on basic physical an	
Physical state	: Liquid
Appearance	: Clear liquid. Viscous.
Molecular mass	: 10000 - 12000 g/mol
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
Refractive index	: 1.437
рН	: No data available
Relative evaporation rate (butvl acetate=1)	: No data available

9.1. Information on basic physical and o	chemical properties
Physical state	: Liquid
Appearance	: Clear liquid. Viscous.
Molecular mass	: 10000 - 12000 g/mol
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
Refractive index	: 1.437
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: <0°C
Freezing point	: No data available
Boiling point	: > 205 °C
Flash point	: <mark>205 °C</mark>
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 0.93
VOC content	: <3%
Solubility	: Insoluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: 500 - 700 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	

 10.1.
 Reactivity

 No additional information available

 10.2.
 Chemical stability

 Stable.

 10.3.
 Possibility of hazardous reactions

 No additional information available

 10.4.
 Conditions to avoid

 No additional information available

 10.5.
 Incompatible materials

 Oxidizing agent.

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10.6. Hazardous decomposition products	
Organic acid vapors. Silicon dioxide.	
SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
,	
Octamethylcyclotetrasiloxane (556-67-2)	
LD50 oral rat LD50 dermal rat	1540 mg/kg
LD50 dermal rabbit	1770 mg/kg 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
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
	The classification is based on reproductive studies in animals. Octamethylcyclotetrasiloxane: Rat TDLo (Inhalation) 500 ppm, male 70 days and 70 days prior to mating - 3 weeks after birth prior to mating. Toxic Effects: Effects on Newborn - Live birth index.
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May be harmful if inhaled.
Symptoms/injuries after skin contact	: May cause mild skin irritation.
Symptoms/injuries after eye contact	: May cause mild eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
SECTION 12: Ecological information	
12.1. Toxicity	
Octamethylcyclotetrasiloxane (556-67-2)	
LC50 fish 1	> 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
LC50 fish 2	> 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	

No additional information available

12.5. Other adverse effects

Effect on ozone layer Effect on the global warming : No additional information available

: No known ecological damage caused by this product.

SECTI	ON 13: Disposal considera	ions
13.1.	Waste treatment methods	
Waste d	sposal recommendations	: Incinerate. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.

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Ecology - waste materials	: Ave	oid re	elease to the environment.		
SECTION 14: Transpo	ort information				
14.1. UN number					
Not regulated for transport.					
14.2. UN proper shippi	ng name				
Not applicable					
14.3. Additional information	ion				
Other information	: No	sup	plementary information availa	ble.	
Transport by sea					
No additional information ava	ailable				
Air transport					
No additional information ava	ailable				
SECTION 15: Regulat	ory information				
15.1. US Federal regulation					
				ILOXANE TERPOLYMER (59	75/3-32-3)
TSCA Exemption/Exclusion	, ,		,	ce with 40 CFR 723.50(c)(1).,	
				lest, Inc.,To be used in silicone	
Octamethylcyclotetrasilo	xane (556-67-2)				
Listed on the United States	TSCA (Toxic Substances	Cont	rol Act) inventory		
EPA TSCA Regulatory Flag	g T-	T - i	ndicates a substance that is t	he subject of a Section 4 test	rule under TSCA.
(Vinylmethylsiloxane)-(oc	tylmethylsiloxane)-dimet	thyls	iloxane terpolymer (597543	-32-3)	
Not listed on the United Sta	ates TSCA (Toxic Substanc	es C	Control Act) inventory		
15.2. International regulation	ons				
Octamethylcyclotetrasilo	xane (556-67-2)				
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 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 (Philippine (Vinvlmethylsiloxane)-(oc	•		iloxane terpolymer (597543	-32-3)	
(This inclusion of a local of a l				02 0,	
15.3. US State regulations					
(3-5% VINYLMETHYLSILO)	KANE)-(35-40% OCTYLME	THY	(LSILOXANE)-DIMETHYLSIL	OXANE TERPOLYMER(5975	543-32-3)
U.S California - Proposition	n 65 - Carcinogens List	No)		
U.S California - Proposition 65 - Developmental Toxicity		No			
U.S California - Proposition Toxicity - Female	n 65 - Reproductive	No)		
U.S California - Proposition Toxicity - Male	n 65 - Reproductive	No)		
Octamethylcyclotetrasiloxa	ane (556-67-2)				
U.S California -	U.S California -		U.S California -	U.S California -	No significance risk level
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity		Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)
No	No		No	No	
(Vinylmethylsiloxane)-(oct	ylmethylsiloxane)-dimeth	ylsil	oxane terpolymer (597543-3	32-3)	
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)
		ļ	i elliale	Iviale	
No	No		No	No	

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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::

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	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 1 Slight Hazard
Physical	: 0 Minimal Hazard

Prepared by safety and environmental affairs.

Date of issue: 10/21/2014 Version: 1.0

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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