

Safety Data Sheet DMS-S27 Date of issue: 10/27/2014 Revisio Revision date: 10/23/2015

Version: 2.0

hysical state : L ubstance name : S roduct code : L	ubstance	J				
roduct form: 5hysical state: 1ubstance name: 5roduct code: 1						
hysical state : L ubstance name : S roduct code : L						
roduct code : C		: Liquid				
roduct code : [: SILANOL TERMINATED POLYDIMETHYLSILOXANE					
	: DMS-S27					
ynonyms : H	YDROXY TERMINATED POLYDIMETHYLSILO					
	RGANOSILOXANE	ANE				
· · · · · · · · · · · · · · · · · · ·						
2. Relevant identified uses of the substance	•					
	hemical intermediate or research and industrial use only					
3. Details of the supplier of the safety data	sheet					
ELEST, INC.						
1 East Steel Road						
orrisville, PA 19067 SA						
215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM -	5:30 PM EST					
fo@gelest.com - <u>www.gelest.com</u>						
4. Emergency telephone number						
mergency number : 0	HEMTREC: 1-800-424-9300 (USA); +1 703-527-	-3887 (Inte	rnational)			
ECTION 2: Hazards identification						
1. Classification of the substance or mixtu	9					
HS-US classification						
ot classified						
2. Label elements						
HS-US labeling						
o labeling applicable						
3. Other hazards						
o additional information available						
4. Unknown acute toxicity (GHS US)						
o data available						
ECTION 3: Composition/Information o	ingredients					
1. Substance	ingrouionto					
	olymer					
	•					
	ILANOL TERMINATED POLYDIMETHYLSILOX/)131-67-8					
Name	Product identifier	%	GHS-US classification			
Silanol terminated polydimethylsiloxane	(CAS No) 70131-67-8	> 95	Not classified			
Octamethylcyclotetrasiloxane	(CAS No) 556-67-2	< 3	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2B, H320			

Not applicable

SECTION 4: First aid measures	;		
4.1. Description of first aid measu	ires		
First-aid measures general		g and shoes. In case of accident or if you feel how the label where possible). If possible sho abel.	'
First-aid measures after inhalation	: Remove victim to fresh air an unwell, seek medical advice.	d keep at rest in a position comfortable for brea	athing. If you feel
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First-aid measures after skin contact	: Wash with plenty of soap and water. Get medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. 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 effect	s, both acute and delayed
Symptoms/injuries after inhalation	: May be harmful if inhaled.
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	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.
Unsuitable extinguishing media	: None known.
5.2. Special hazards arising from the sub	stance 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 meas	ures
6.1. Personal precautions, protective equ	
6.1.1. For non-emergency personnel	
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	
Prevent entry to sewers and public waters. Notify	authorities if liquid enters sewers or public waters.
6.3. Methods and material for containmer	at and cleaning up
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or 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 personal p	rotection.
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. Spillage of this material may create a slippery condition for foot or vehicle traffic. 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, including	g 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	

No additional information available

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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	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Avoid all unnecessary 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.				
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					
Physical state	: Liquid				
Appearance	: Clear liquid.				
Molecular mass	: 15000 - 20000 g/mol				
Color	: No data available				
Odor	: Mild menthol-like aroma.				
Odor threshold	: No data available				
Refractive index	: 1.403				
pH	: 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	: 205 °C				
Auto-ignition temperature	: No data available				
Decomposition temperature	: No data available				
Flammability (solid, gas)	: No data available				
Vapor pressure	: No data available				
Relative vapor density at 20 °C	: No data available				
Relative density	: 0.97				
Solubility	: Insoluble in water.				
Log Pow	: No data available				
Log Kow	: No data available				
Viscosity, kinematic	: 700 - 800 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	y				
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					
Heat. Open flame. Sparks. 10.5. Incompatible materials					
Oxidizing agent. 10/23/2015	EN (English US) SDS ID: DMS-S27 3				

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10.6. Hazardous decomposition products				
Formaldehyde. Organic acid vapors. Silicon dioxide.				
SECTION 11: Toxicological information				
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			
Silanol terminated polydimethylsiloxane (70	131-67-8)			
LD50 oral rat	> 15400 mg/kg			
LD50 dermal rabbit	> 16 ml/kg			
LC50 inhalation rat (mg/l)	> 8750 mg/m ³ (Exposure time: 7 h)			
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			
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 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)	
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	
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 considerations	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.
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Ecology - waste materials : Av	oid 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				
15.1. US Federal regulations				
Octamethylcyclotetrasiloxane (556-67-2)				
Listed on the United States TSCA (Toxic Substances	Control Act) inventory			
EPA TSCA Regulatory Flag T -	T - indicates a substance that is the subject of a Section 4 test rule under TSCA.			
Silanol terminated polydimethylsiloxane (70131-67				
Listed on the United States TSCA (Toxic Substances	Control Act) inventory			
15.2. International regulations				
Octamethylcyclotetrasiloxane (556-67-2)				
Listed on the AICS (Australian Inventory of Chemical				
Listed on the Canadian DSL (Domestic Substances L				
Listed on IECSC (Inventory of Existing Chemical Subs Listed on the EEC inventory EINECS (European Inver				
Listed on the Japanese ENCS (Existing & New Chem				
Listed on the Korean ECL (Existing Chemicals List)				
Listed on NZIoC (New Zealand Inventory of Chemical				
Listed on PICCS (Philippines Inventory of Chemicals Listed on INSQ (Mexican national Inventory of Chemi				
Listed on Turkish inventory of chemical				
Silanol terminated polydimethylsiloxane (70131-67	/-8)			
Listed on the AICS (Australian Inventory of Chemical				
Listed on the Canadian DSL (Domestic Substances Li				
Listed on IECSC (Inventory of Existing Chemical Sub- Listed on the Korean ECL (Existing Chemicals List)	stances Produced or Imported in China)			
Listed on NZIoC (New Zealand Inventory of Chemical	s)			
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)				
Listed on INSQ (Mexican national Inventory of Chemic	cal Substances)			
15.3. US State regulations				
	(704.04.07.0)			
SILANOL TERMINATED POLYDIMETHYLSILOXANE U.S California - Proposition 65 - Carcinogens List	(70131-67-8) No			
U.S California - Proposition 65 - Developmental	No			
Toxicity				
U.S California - Proposition 65 - Reproductive	No			

No

Toxicity - Female

U.S. - California -

Proposition 65 -

Carcinogens List

Toxicity - Male

U.S. - California - Proposition 65 - Reproductive

U.S. - California -

Developmental Toxicity

Proposition 65 -

No

Octamethylcyclotetrasiloxane (556-67-2)

No

U.S. - California -

Reproductive Toxicity -

Proposition 65 -

Female

No

U.S. - California -

Reproductive Toxicity -

Proposition 65 -

Male

No

Non-significant risk level

(NSRL)

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Silanol terminated polydimethylsiloxane (70131-67-8)					
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	Non-significant risk level (NSRL)	
No	No	No	No		
Silanol terminated polydimethylsiloxane (70131-67-8)					

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 - I	rritation or minor	reversible injury p	ossible
Flammability	:	1 Slight Hazard			
Physical		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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