

EPOXYPROPOXYPROPYL TERMINATED

POLYDIMETHYLSILOXANE Safety Data Sheet DMS-E12 Date of issue: 11/13/2014 Version

Version: 1.0

SECTION 1: Identification				
1.1. Identification				
Product name	: EPOXYPROPOXYPROPYL TERMINATED POLYDIMETHYLSILOXANE			
Product code	: DMS-E12			
Product form	: Substance			
Physical state	: Liquid			
Synonyms	: GLYCIDOXYPROPYL TERMINATED POLYDIMETHYLSILOXANE; POLY(DIMETHYLSILOXANE), 2,3-EPOXYPROPYL) PROPYL ETHER TERMINATED			
Chemical family	: EPOXYSILOXANE			
1.2. Recommended use and restrictions	on use			
Recommended use	: Chemical intermediate			
1.3. Supplier				
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA				
T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 / info@gelest.com - www.gelest.com	AM - 5:30 PM EST			
1.4. Emergency telephone number				
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)			
SECTION 2: Hazard(s) identification				
2.1. Classification of the substance or m	ixture			
GHS-US classification				
Skin corrosion/irritation Category 2	H315 Causes skin irritation			
Serious eye damage/eye irritation Category 2A	H319 Causes serious eye irritation			
Full text of H statements : see section 16				
2.2. GHS Label elements, including prec	autionary statements			
GHS US labeling				
Hazard pictograms (GHS US)				
Signal word (GHS US)	: Warning			
Hazard statements (GHS US)	: H315 - Causes skin irritation H319 - Causes serious eye irritation			
Precautionary statements (GHS US)	 P280 - Wear protective gloves/protective clothing/eye protection/face protection. P264 - Wash hands thoroughly after handling. P302+P352 - If on skin: Wash with plenty of water P332+P313 - If skin irritation occurs: Get medical advice/attention. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337+P313 - If eye irritation persists: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse. 			
2.3. Hazards not otherwise classified (H	NOC)			
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/Informatio	n on ingredients			
3.1. Substances				

5.1. Substances	
Substance type	: Multi-constituent
Name	: EPOXYPROPOXYPROPYL TERMINATED POLYDIMETHYLSILOXANE
CAS-No.	: 102782-97-8

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Name	Product identifier	%	GHS-US classification
Epoxypropoxypropyl terminated polydimethylsiloxane	(CAS-No.) 102782-97-8	> 95	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
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 Repr. 2, H361 Aquatic Chronic 4, H413

Full text of hazard classes and H-statements : see section 16

3.2.	Mixtures		
Not appli	cable		
SECTI	ON 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. Get immediate medical advice/attention.
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 effect	ts (acute and delayed)
Sympton	ns/effects after inhalation	:	No information available.
• •	ns/effects after skin contact	:	Causes skin irritation.
	ns/effects after eye contact	:	Causes serious eye irritation.
• •	ns/effects after ingestion		No information available.
4.3.	Immediate medical attention and spe	Cla	a treatment, it necessary
No addit	onal information available		
SECTI	ON 5: Fire-fighting measures		
5.1.	Suitable (and unsuitable) extinguishi	ing	media
Suitable	extinguishing media	:	Water spray. Water fog. Foam. Carbon dioxide. Dry chemical.
Unsuitab	le extinguishing media	:	None known.
5.2.	Specific hazards arising from the che	em	ical
Fire haza		:	Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.
5.3.	Special protective equipment and pro	eca	autions for fire-fighters
Firefighti	ng instructions	:	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Protectio	n 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.
SECTI	ON 6: Accidental release meas	ur	es
6.1.	Personal precautions, protective equ	ıipı	ment and emergency procedures
6.1.1.	For non-emergency personnel		
	icy procedures		Evacuate unnecessary personnel.
Emerger		•	
6.1.2.	For emergency responders		
Protectiv	e equipment	:	Equip cleanup crew with proper protection.
6.2.	Environmental precautions		
Prevent	entry to sewers and public waters. Notify	au	thorities if liquid enters sewers or public waters.
6.3.	Methods and material for containmer	nt a	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		
Coo Lloo	ding 9. Evenesure controls and naroanal r		testion

See Heading 8. Exposure controls and personal protection.

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SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Avoid all eye and skin contact and do	o not breathe vanor and mist
Hygiene measures	•	as with mild soap and water before eating, drinking or
Trygiene measures		ish contaminated clothing before reuse.
7.2. Conditions for safe storage, inclu	uding any incompatibilities	
Storage conditions	: Keep container tightly closed. Store i	in a cool area. Store in a dark area.
Incompatible materials	: Oxidizing agent.	
Storage area	: Store in a well-ventilated place. Store	e away from heat.
SECTION 8: Exposure controls/pe	rsonal protection	
8.1. Control parameters		
Octamethylcyclotetrasiloxane (556-67-2)		
AIHA WEEL TWA	(ppm)	10 ppm
8.2. Appropriate engineering controls	5	
Appropriate engineering controls	: Provide local exhaust or general room	m ventilation.
8.3. Individual protection measures/F	Personal protective equipment	
Personal protective equipment:		
Avoid all unnecessary exposure. Emergency exposure.	eye wash fountains and safety showers sho	uld be available in the immediate vicinity of any potential
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 occu cartridge) respirator.	r from use, respiratory protection equipment	t is recommended. NIOSH-certified organic vapor (black
SECTION 9: Physical and chemica	al properties	
9.1. Information on basic physical an	d chemical properties	
	d chemical properties : Liquid	

Appearance	: Clear liquid.
Molecular mass	: 1000 - 1400 g/mol
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
Refractive index	: 1.417
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	: > 110 °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	: 0.98
% Volatiles	: < 3 %

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Solubility	: Insoluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: 20 - 35 cSt
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
	: No data available
Explosion limits	
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 additional information available	
10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
10.5. Incompatible materials	
Oxidizing agent.	
10.6. Hazardous decomposition products	
Organic acid vapors. Silicon dioxide.	
SECTION 11: Toxicological informat	ion
11.1. Information on toxicological effects	
internation on toxicological effects	
Acute toxicity	: Not classified
Acute toxicity	
	: Not classified
Acute toxicity Octamethylcyclotetrasiloxane (556-67-2)	
Acute toxicity Octamethylcyclotetrasiloxane (556-67-2) LD50 oral rat	: Not classified 1540 mg/kg RTECS Number: GZ4397000
Acute toxicity Octamethylcyclotetrasiloxane (556-67-2) LD50 oral rat LD50 dermal rat	Not classified 1540 mg/kg RTECS Number: GZ4397000 1770 mg/kg
Acute toxicity Octamethylcyclotetrasiloxane (556-67-2) LD50 oral rat LD50 dermal rat LD50 dermal rabbit	 Not classified 1540 mg/kg RTECS Number: GZ4397000 1770 mg/kg 794 μl/kg
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Acute toxicity Octamethylcyclotetrasiloxane (556-67-2) LD50 oral rat LD50 dermal rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE US (oral) ATE US (dermal)	Not classified 1540 mg/kg RTECS Number: GZ4397000 1770 mg/kg 794 μl/kg 36 g/m³ (Exposure time: 4 h) 1540 mg/kg body weight 1770 mg/kg body weight
Acute toxicity Octamethylcyclotetrasiloxane (556-67-2) LD50 oral rat LD50 dermal rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE US (oral) ATE US (dermal) ATE US (vapors)	 Not classified 1540 mg/kg RTECS Number: GZ4397000 1770 mg/kg 794 µl/kg 36 g/m³ (Exposure time: 4 h) 1540 mg/kg body weight 1770 mg/kg body weight 36 mg/l/4h
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Acute toxicity Octamethylcyclotetrasiloxane (556-67-2) LD50 oral rat LD50 dermal rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE US (oral) ATE US (dermal) ATE US (dermal) ATE US (dust, mist) Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity – single exposure Specific target organ toxicity – repeated exposure Aspiration hazard Symptoms/effects after inhalation	 Not classified 1540 mg/kg RTECS Number: GZ4397000 1770 mg/kg 794 µl/kg 36 g/m³ (Exposure time: 4 h) 1540 mg/kg body weight 1540 mg/kg body weight 36 mg/l/4h 36 mg/l/4h 36 mg/l/4h 36 mg/l/4h causes skin irritation. Causes serious eye irritation. Not classified
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SECTION 12: Ecological information

12.1. Toxicity

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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	
No additional information available	
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 the ozone layer	: No additional information available
SECTION 12: Disposal consideration	
SECTION 13: Disposal consideration 13.1. Disposal methods	
13.1. Disposal methods Product/Packaging 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	
15.1. US Federal regulations	
Epoxypropoxypropyl terminated polydimeth	ylsiloxane (102782-97-8)
Listed on the United States TSCA (Toxic Subst	ances Control Act) inventory
Octamethylcyclotetrasiloxane (556-67-2)	
Listed on the United States TSCA (Toxic Subst	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a final TSCA section 4 test rule.
15.2. International regulations	
CANADA	
Epoxypropoxypropyl terminated polydimeth	ylsiloxane (102782-97-8)
Listed on the Canadian NDSL (Non-Domestic S	
Octamethylcyclotetrasiloxane (556-67-2)	
Listed on the Canadian DSL (Domestic Substa	nces List)
EU-Regulations	
No additional information available	

Octamethylcyclotetrasiloxane (556-67-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Safety Data Sheet

Epoxypropoxypropyl terminated polydimethylsiloxane (102782-97-8)	
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory	
Octamethylcyclotetrasiloxane (556-67-2)	
Listed on the AICS (Australian Inventory of Chemical Substances) 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) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on CICR (Turkish Inventory and Control of Chemicals)	

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Full text of H-phrases::	
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H320	Causes eye irritation
H361	Suspected of damaging fertility or the unborn child
H413	May cause long lasting harmful effects to aquatic life

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Abbreviations and acronyms
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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; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor.

Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Prepared by safety and environmental affairs.

Date of issue: 11/13/2014 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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