

EPOXYPROPOXYPROPYL TERMINATED POLYDIMETHYLSILOXANE

Safety Data Sheet DMS-E21 Date of issue: 13/11/2014 Version Version: 1.0

SECTION 1: Identification of the sul	ostance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Physical state	: Liquid
Substance name	: EPOXYPROPOXYPROPYL TERMINATED POLYDIMETHYLSILOXANE
Product code	: DMS-E21
Synonyms	: GLYCIDOXYPROPYL TERMINATED POLYDIMETHYLSILOXANE; POLY(DIMETHYLSILOXANE), 2,3-EPOXYPROPYL) PROPYL ETHER TERMINATED
Chemical family	: EPOXYSILOXANE
1.2. Relevant identified uses of the sub	stance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: Chemical intermediate
1.2.2. Uses advised against No additional information available	
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 info@gelest.com - www.gelest.com	AM - 5:30 PM EST
GELEST INC.	
Fritz-Klatte-Strasse 8	
65933 Frankfurt	
Germany	
T +49 (0) 69 3535106-500 - F +49 (0) 69 35351	06-501 - (M-F): 8:00 AM - 4:00 PM
info@gelestde.com - www.gelestde.com	
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Full text of H statements : see section 16	

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements			
Labelling according to Regulation (EC	;) No. 1272/2008 [CLP]		
Hazard pictograms (CLP)	: GHS07		
Signal word (CLP)	: Warning		
Hazard statements (CLP)	: H315 - Causes skin irritatior H319 - Causes serious eye		
Precautionary statements (CLP)	: P280 - Wear protective glov P264 - Wash hands thoroug	es/protective clothing/eye protection/face protectior hly after handling.	n.
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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.

2.3. Other hazards

Contains PBT/vPvB substances >= 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients				
3.1. Substances				
Substance type	: Multi-constituent			
Name	: EPOXYPROPOXYPROPYL TERMINATED POLYDIMETHYLSILOXANE			
CAS-No.	: 102782-97-8			

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Epoxypropoxypropyl terminated polydimethylsiloxane	(CAS-No.) 102782-97-8	> 95	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Octamethylcyclotetrasiloxane substance listed as REACH Candidate (Octamethylcyclotetrasiloxane (D4))	(CAS-No.) 556-67-2 (EC-No.) 209-136-7	< 3	Repr. 2, H361f Aquatic Chronic 4, H413

Full text of H-statements: see section 16

3.2. Mixtures	
Not applicable	
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 person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash with plenty of 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 ef	fects, both acute and delayed
Symptoms/effects after inhalation	: No information available.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: No information available.
4.3. Indication of any immediate medi	cal 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	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 vapour and mist.

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SECT	ION 6: Accidental release me	asures		
6.1.	Personal precautions, protective equipment and emergency procedures			
6.1.1.	For non-emergency personnel			
Emerge	ncy procedures	: Evacuate unnecessary personnel.		
6.1.2.	For emergency responders			
	ve equipment	: Equip cleanup crew with proper protection.		
6.2.	Environmental precautions			
		tify authorities if liquid enters sewers or public waters.		
6.3.	Methods and material for contain			
	s for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or		
Method	s to cleaning up	shovel spills into appropriate container for disposal.		
6.4.	Reference to other sections			
	ading 8. Exposure controls and person	al protection.		
	. .			
	ION 7: Handling and storage			
7.1.	Precautions for safe handling	. Avaid all ava and altic contact and do not broothe venerus and stict		
	ions for safe handling	: Avoid all eye and skin contact and do not breathe vapour and mist.		
Hygiene	e 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, inclu			
	conditions	: Keep container tightly closed. Store in a cool area. Store in a dark area.		
-	atible materials	: Oxidizing agent.		
Storage		: Store in a well-ventilated place. Store away from heat.		
7.3.	Specific end use(s)			
	tional information available			
1 A	ION 8: Exposure controls/per	sonal protection		
8.1.	Control parameters			
No addi	tional information available			
	E			
8.2.	Exposure controls			
Approp	riate engineering controls:			
Provide	local exhaust or general room ventilati	on.		
Person	al protective equipment:			
Avoid a	I unnecessary exposure. Emergency e	eve wash fountains and safety showers should be available in the immediate vicinity of any potential		
exposur	e.			
Hand p	rotection:			
-	ne or nitrile rubber gloves			
	-			
Eye pro	otection:			
Chemic	al goggles. Contact lenses should not l	be worn		
Skin an	d body protection:			
Wear su	uitable protective clothing			
	itory protection:			
	exposure through inhalation may occur e) respirator.	from use, respiratory protection equipment is recommended. NIOSH-certified organic vapor (black		
SECT	ION 9: Physical and chemica	l properties		
9.1.	Information on basic physical and	I chemical properties		
Physica	l state	: Liquid		
Appeara	ance	: Clear liquid.		
Molecul	ar mass	: 4500 - 5500 g/mol		
Colour		: No data available		

Odour

Odour threshold

: No data available

: No data available

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Refractive index	: 1.408
рН	: No data available
Relative evaporation rate (butylacetate=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
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0.98
% Volatiles	: < 3 %
Solubility	: Insoluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: 100 - 140 cSt
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising 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 **Chemical stability** 10.2. Stable. 10.3. Possibility of hazardous reactions No additional information available 10.4. **Conditions to avoid** Heat. Open flame. Sparks. Incompatible materials 10.5. Oxidizing agent. Hazardous decomposition products 10.6. 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 RTECS Number: GZ4397000
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 CLP (oral)		1540 mg/kg bodyweight
ATE CLP (dermal)		1770 mg/kg bodyweight
ATE CLP (vapours)		36 mg/l/4h
ATE CLP (dust,mist)		36 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation	on.
Respiratory or skin sensitisation	: Not classified	

Carcinogenicity

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Reproductive toxicity	: Not classified
Reproductive toxicity	
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: No information available.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: No information available.
Reason for classification	: Expert judgment
SECTION 12: Ecological informa	ation

12.1. Toxicity		
Acute aquatic toxicity	: Not classified	
Chronic aquatic toxicity	: Not classified	
Octamethylcyclotetrasiloxane (5	i6-67-2)	
Octamethylcyclotetrasiloxane (55 LC50 fish 1	i6-67-2) > 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)	

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. Results of PBT and vPvB assessment	£			
Component				
Octamethylcyclotetrasiloxane (556-67-2)		nce/mixture meets the PBT criteria of REACH regulation, annex XIII nce/mixture meets the vPvB criteria of REACH regulation, annex XIII		

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal consideration	ns
13.1. Waste treatment 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

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number			
UN-No. (ADR)	: Not applicable		
UN-No. (IMDG)	: Not applicable		
UN-No. (IATA)	Not applicable		
UN-No. (ADN)	Not applicable		
UN-No. (RID)	: Not applicable		
14.2. UN proper shipping name			
Proper Shipping Name (ADR)	: Not applicable		
Proper Shipping Name (IMDG)	: Not applicable		
Proper Shipping Name (IATA)	: Not applicable		
Proper Shipping Name (ADN)	: Not applicable		
Proper Shipping Name (RID)	: Not applicable		
14.3. Transport hazard class(es)			
ADR			
Transport hazard class(es) (ADR)	: Not applicable		
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IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
- Overland transport No data available	
- Transport by sea No data available - Air transport	
No data available	
- Inland waterway transport	
No data available	
- Rail transport	
No data available	
14.7. Transport in bulk according to Ar	nnex II of Marpol and the IBC Code
Not applicable	
SECTION 15: Regulatory informat	
	regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations	
No REACH Annex XVII restrictions	
EPOXYPROPOXYPROPYL TERMINATED P	OLYDIMETHYLSILOXANE is not on the REACH Candidate List
	te list in concentration ≥ 0.1% or with a lower specific limit: Octamethylcyclotetrasiloxane (D4) (EC
209-136-7, CAS 556-67-2)	
EPOXYPROPOXYPROPYL TERMINATED P	OLYDIMETHYLSILOXANE is not on the REACH Annex XIV List
EPOXYPROPOXYPROPYL TERMINATED P	OLYDIMETHYLSILOXANE is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN
PARLIAMENT AND OF THE COUNCIL of 4 J	uly 2012 concerning the export and import of hazardous chemicals.

EPOXYPROPOXYPROPYL TERMINATED POLYDIMETHYLSILOXANE is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

% Volatiles : < 3 %

15.1.2. National regulations

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Germany		
Reference to AwSV	: Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to VwVwS, Annex 3; ID No. 6685)	
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)	
Netherlands		
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed	
SZW-lijst van mutagene stoffen	: The substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed	
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed	

15.2. Chemical safety assessment

No additional information available

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

Other information

: Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:	
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
H413	May cause long lasting harmful effects to aquatic life.

SDS EU (REACH Annex II) - Custom

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