

Safety Data Sheet SID2650.0 Date of issue: 10/29/2014 Version: 1.0

<b>SECTION 1: Identification of the sub</b>	stance/mixture and of the company/un	dertaking	
1.1. Product identifier			
Product form	: Substance		
Physical state	: Liquid		
Substance name	DECAMETHYLCYCLOPENTASILOXANE		
Product code	: SID2650.0		
Formula	: C10H30O5Si5		
Synonyms	: CYCLIC PENTAMER; D5; CYCLOPENTASILOXANE		
Chemical family	ORGANOSILOXANE		
•	tance or mixture and uses advised against		
Use of the substance/mixture	: Chemical intermediate		
	For research and industrial 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 - 5:30 PM EST		
info@gelest.com - www.gelest.com			
1.4. Emergency telephone number			
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-52	27-3887 (Inte	rnational)
SECTION 2: Hazards identification			
2.1. Classification of the substance or m	lixture		
Classification (GHS-US)			
Flam. Liq. 4 H227			
Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling			
Signal word (GHS-US)	: Warning		
	: H227 - Combustible liquid		
Hazard statements (GHS-US) Precautionary statements (GHS-US)	: P210 - Keep away from heat, open flames, spar	ka Na ama	king
Frecautionary statements (GHS-03)	P280 - Wear protective gloves/protective clothing		
	P370+P378 - In case of fire: Use water spray, fo	am, carbon o	
	P403+P235 - Store in a well-ventilated place. Ke P501 - Dispose of contents/container to licensed		and facility
2.2 Other hererde	P301 - Dispose of contents/container to itensec	i waste uispu	JSai laciity.
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS-US) No data available			
SECTION 3: Composition/informatio	n on ingredients		
3.1. Substance			
Substance type	: Multi-constituent		
Name	: DECAMETHYLCYCLOPENTASILOXANE		
CAS No	: 541-02-6		
EC no	: 208-764-9		
Name	Product identifier	%	Classification (GHS-US)
Decamethylcyclopentasiloxane	(CAS No) 541-02-6	> 97	Flam. Liq. 4, H227
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

Safety Data Sheet

3.2. Mixture         Not applicable         SECTION 4: First aid measures         First-aid measures general       : Remove contaminated clothing and shoes. In case of accident or if you feel unwel medical advice immediately (show the label where possible). If possible show this available show packaging or label.         First-aid measures after inhalation       : Remove to fresh air and keep at rest in a position comfortable for breathing. If you 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 corr present and easy to do. Continue rinsing. Get medical advice/attention.         First-aid measures after inhalation       : Never give anything by mouth to an unconscious person. Get medical advice/attention.         Symptoms/injuries after inhalation       : May be harmful if inhaled. May cause irritation to the respiratory tract.         Symptoms/injuries after ingestion       : May be harmful if swallowed.         4.3.       Indication of any immediate medical attention and special treatment needed         No additional information available       Sectron 5: Firefighting measures         5.1.       Extinguishing media	
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Unsuitable extinguishing media : None known.	
5.2. Special hazards arising from the substance or mixture	atavial ia
Fire hazard : Combustible liquid. Irritating fumes and organic acid vapors may develop when m exposed to elevated temperatures or open flame. Liquid generates strong static corpoured.	
5.3. Advice for firefighters	
Firefighting instructions : Use water spray to cool exposed surfaces. Exercise caution when fighting any che	emical fire.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory p Avoid all eye and skin contact and do not breathe vapor and mist.	rotection.
SECTION 6: Accidental release measures	
6.1. Personal precautions, protective 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 containment and cleaning up	

6.3. Methods and material for containment and cleaning up

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						
Additional hazards when processed	: Keep away from heat, open flames, sparks.	- No smoking.				
Precautions for safe handling	Avoid all eye and skin contact and do not breathe vapor and mist. Provide good ventilation in process area to prevent accumulation of vapors. Take precautionary measures against static discharge. Use only non-sparking tools.					
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						
echnical measures : Ground/bond container and receiving equipment.		nent.				
10/29/2014	EN (English US)	SDS ID: <b>SID2650.0</b> 2	/7			

Safety Data Sheet

Storage conditions	: Keep container tightly closed.		
Incompatible materials	: Oxidizing agent. Peroxides.		
Storage area	: Store in a well-ventilated place. Store away from heat.		
7.3. Specific end use(s)			
No additional information available			
<b>SECTION 8: Exposure controls/per</b>	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	: 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			
9.1. Information on basic physical and			
Physical state	: Liquid		
Appearance	: Clear liquid.		
Molecular mass	: 370.77 g/mol		
Color	: No data available		
Odor Odor throohold	: Odorless.		
Odor threshold	: No data available		
Refractive index	: 1.3982 : No data available		
pH Relative exercises rate (buthl exertets 1)			
Relative evaporation rate (butyl acetate=1) Melting point	: ~1 : -44 °C		
Freezing point	: No data available		
Boiling point	: 210 °C		
Flash point	: 76 °C		
Critical temperature	: 344 °C		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Combustible liquid		
Vapor pressure	: No data available		
Vapor pressure at 50 °C	: 2 mm Hg		
Relative vapor density at 20 °C	: >1		
Relative density	: 0.959		
VOC content	: 100 %		
Solubility	: Insoluble in water.		
,	Water: 0.03 mg/l		
Log Pow	: No data available		
Log Kow	: 5.5		
Viscosity, kinematic	: 3.87 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

Safety Data Sheet

SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable in sealed containers in a cool place.	
10.3. Possibility of hazardous reactions	
Bases can cause non-hazardous polymerization.	
10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
10.5. Incompatible materials	
Oxidizing agent. Peroxides.	
10.6. Hazardous decomposition products	
Organic acid vapors.	
SECTION 11: Toxicological information	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 <sup>3</sup> (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
Decamethylcyclopentasiloxane (541-02-6)	
LD50 oral rat	> 24134 mg/kg
LD50 dermal rabbit LC50 inhalation rat	> 16 ml/kg (lethal concentration)
Toxicity information	> 2700 mg/m <sup>3</sup> (lethal concentration: inhalation, rat)
Skin corrosion/irritation	: Not classified
	Skin Irritation - rabbit: 500mg/24H: mild irritant effect
Serious eye damage/irritation	: Not classified
	Eye Irritation - rabbit: 500mg/24H: mild irritant effect
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. May cause irritation to the respiratory tract.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
CECTION 42. Exclassical information	
SECTION 12: Ecological information	
12.1. Toxicity	
Octamethylcyclotetrasiloxane (556-67-2)	

Octamethylcyclotetrasiloxane (556-67-2)			
LC50 fish 1	> 500 mg/l (Exposure time:	> 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)	
LC50 fish 2 > 1000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)			
<b>12.2.</b> Persistence and degradability			
Octamethylcyclotetrasiloxane (556-67-2	2)		
Persistence and degradability May cause long-term adverse effects in the environment.			
10/29/2014	EN (English US)	SDS ID: SID2650.0	4/7

Safety Data Sheet

12.3. Bioaccumulative potential	
Octamethylcyclotetrasiloxane (556-67-2)	
BCF fish 1	12400
Log Pow	5.1
Decamethylcyclopentasiloxane (541-02-6)	
Log Kow	5.5
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other adverse effects	: This substance may be hazardous to the environment.
Effect on ozone layer	: No additional information available
Effect on the global warming	: No known ecological damage caused by this product.
SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Waste disposal recommendations	: Incinerate. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	
14.1. UN number	
DOT NA no.	NA1993
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.
	(DECAMETHYLCYCLOPENTASILOXANE)
Department of Transportation (DOT) Hazard Classes	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name
Packing group (DOT)	: III - Minor Danger
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
14.3. Additional information	
Other information	: No supplementary information available.
Transport by sea	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
SECTION 15: Regulatory information	
SECTION 15: Regulatory information 15.1. US Federal regulations	
Octamethylcyclotetrasiloxane (556-67-2)	
Listed on the United States TSCA (Toxic Substa	ances Control Act) inventory
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
Decamethylcyclopentasiloxane (541-02-6)	
Listed on the United States TSCA (Toxic Substa	ances Control Act) inventory
15.2. International regulations	

Safety Data Sheet

Octamethylcyclotetrasilo	xane (556-67-2)			
	· · ·	ubstances)		
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Canadian DSL (Domestic Sustances List)				
		ances Produced or Imported in 0	China)	
		ory of Existing Commercial Cher		
Listed on the Japanese EN	CS (Existing & New Chemic	al Substances) inventory	nical Cabelanece)	
Listed on the Korean ECL (		a oubstances/ inventory		
	and Inventory of Chemicals			
	es Inventory of Chemicals a			
Decamethylcyclopentasil	•	in onemical oubstances		
	lian Inventory of Chemical S	ubstances)		
	L (Domestic Sustances List)			
		ances Produced or Imported in 0	China)	
		ory of Existing Commercial Cher		
	CS (Existing & New Chemic		filear oubstances)	
Listed on the Korean ECL (		a oubstances/ inventory		
	and Inventory of Chemicals	)		
	es Inventory of Chemicals a			
15.3. US State regulations				
DECAMETHYLCYCLOPEN	TASILOXANE(541-02-6)			
U.S California - Propositior	n 65 - Carcinogens List	No		
U.S California - Propositior	n 65 - Developmental	No		
Toxicity				
U.S California - Propositior Toxicity - Female		No		
U.S California - Propositior 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 leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRĽ)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
C C		Female	Male	
No	No	No	No	
Decamethylcyclopentasilo	xane (541-02-6)			
U.S California -	U.S California -	U.S California -	U.S California -	No significance risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
-		Female	Male	
		<b>.</b>		
No	No	No	No	
Octamethylcyclotetrasiloxa	ane (556-67-2)			
U.S Maine - Chemicals of I	High Concern			
U.S Minnesota - Chemicals	s 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 Screer				
U.S Texas - Effects Screer				
Decamethylcyclopentasiloxane (541-02-6)				
	· · ·			
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 Screer	ning Levels - Short Term			
U.S Texas - Effects Screen				

#### 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.

Safety Data Sheet

Full tex	t 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
	Flam. Liq. 4	Flammable liquids Category 4
	H226	Flammable liquid and vapor
	H227	Combustible liquid
	H302	Harmful if swallowed
	H312	Harmful in contact with skin
	H320	Causes eye irritation

#### **HMIS III Rating**

: 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability Physical

Health

- : 2 Moderate Hazard
- : 0 Minimal Hazard
- Prepared by safety and environmental affairs.
- Date of issue: 10/29/2014 Version: 1.0

SDS US (GHS HazCom 2012) - Custom

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

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.

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