

(40% PHENYL-45% METHYLSILSESQUIOXANE)-(5% PHENYLMETHYLSILOXANE)(10% DIPHENYLSILOXANE) TETRAPOLYMER, 85% SILSESQUIOXANE, 15% SILOXANE

Safety Data Sheet SST-3PM4 Issue date: 04/09/2015 Revision date: 02/26/2024

Version: 2.1

SECTION 1: Identification 1.1. Identification Product name (40% PHENYL-45% METHYLSILSESQUIOXANE)-(5% PHENYLMETHYLSILOXANE)(10% DIPHENYLSILOXANE) TETRAPOLYMER, 85% SILSESQUIOXANE, 15% SILOXANE Product code SST-3PM4 Substance Product form Physical state Solid : : (C6H5O1.5Si)m(CH3O1.5Si)n(C6H5CH3SiO)p((C6H5)2SiO)q Formula : (PHENYL-METHYLSILSESQUIOXANE)(PHENYLMETHYLSILOXANE)-(DIPHENYLSILOXANE) Synonyms TETRAPOLYMER; SILOXANES AND SILICONES, DIPHENYL, METHYL PHENYL, POLYMERS WITH METHYL PHENYL SILSESQUIOXANES, HYDROXY-TERMINATED Chemical family : SILICONE RESIN 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 AM - 5:30 PM EST info@gelest.com - www.gelest.com 1.4. Emergency telephone number Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International) SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture **GHS US classification** Not classified 2.2. GHS Label elements, including precautionary statements **GHS US labeling** No labeling applicable 2.3. Hazards not otherwise classified (HNOC) No additional information available 2.4. Unknown acute toxicity (GHS US) Not applicable **SECTION 3: Composition/Information on ingredients** 3.1. Substances Substance type : Resin

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Name

CAS-No.

: (40% PHENYL-45% METHYLSILSESQUIOXANE)-(5% PHENYLMETHYLSILOXANE)(10% DIPHENYLSILOXANE) TETRAPOLYMER, 85% SILSESQUIOXANE, 15% SILOXANE

: 181186-36-7

Name	Product identifier	%	GHS US classification
(Phenyl-methylsilsesquioxane)-(phenylmethylsiloxane)(diphenylsiloxane) tetrapolymer	CAS-No.: 181186-36- 7	> 95	Not classified

Full text of hazard classes and 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 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.
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	s (acute and delayed)
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Headache. Nausea.
Symptoms/effects after skin contact	: May cause skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: No information available.
4.3. Immediate medical attention and spec	sial treatment, if necessary
No additional information available	

SECTION 5: Fire-fighting measures 5.1. Suitable (and unsuitable) extinguishing media Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Dry chemical. Unsuitable extinguishing media : None known. 5.2. Specific hazards arising from the chemical Fire hazard : Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame. 5.3. Special protective equipment and precautions for fire-fighters **Firefighting instructions** : Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire. Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust.

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SECTION 6: Accidental release measures	3
6.1. Personal precautions, protective equipme	ent and emergency procedures
6.1.1. For non-emergency personnel Emergency procedures : 6.1.2. For emergency responders	Evacuate unnecessary personnel.
Protective equipment :	Equip cleanup crew with proper protection.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notify author	rities if liquid enters sewers or public waters.
6.3. Methods and material for containment an	d cleaning up
Methods for cleaning up :	Sweep or shovel spills into appropriate container for disposal.
6.4. Reference to other sections	
See Heading 8. Exposure controls and personal protect	tion.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling : Hygiene measures :	Avoid contact with skin and eyes. Do not breathe dust. Provide local exhaust or general room ventilation to minimize exposure to dust. Ground containers when handling powder. 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 an	y incompatibilities
Storage conditions : Incompatible materials : Storage area :	Keep container tightly closed. None known. Store in a well-ventilated place. Store away from heat.
SECTION 8: Exposure controls/personal	protection
8.1. Control parameters	
(Phenyl-methylsilsesquioxane)-(phenylmethy	/Isiloxane)(diphenylsiloxane) tetrapolymer (181186-36-7)
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	15 mg/m³ nuisance dust
8.2. Appropriate engineering controls	
Appropriate engineering controls :	Provide local exhaust or general room ventilation. If processing at temperatures >125°C ventilation is required.
8.3. Individual protection measures/Personal	protective equipment
Personal protective equipment: Avoid all unnecessary exposure. Emergency eye wash exposure.	fountains and safety showers should be available in the immediate vicinity of any potential
Hand protection: Neoprene or nitrile rubber gloves	

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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 dust and mist (orange cartridge) respirator.

SECTION 9: Physical and chemical properties

	ç	9.1.	Information	on bas	ic physical	and cher	nical prope	rties
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Physical state	: Solid
Appearance	: Flakes.
Molecular mass	: 1400 – 1600 g/mol
Color	: Clear. White.
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
, Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	No data available
Freezing point	: No data available
Boiling point	No data available
Flash point	: > 121 °C
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	: No data available
Softening point	: > 50 °C
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	>1
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available
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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 in sealed containers at temperatures below 30°C.

10.3. Possibility of hazardous reactions

No additional information available

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10.4. Conditions to avoid

Heat. Open flame. Sparks.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Organic acid vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
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
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Headache. Nausea.
Symptoms/effects after skin contact	: May cause skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: No information available.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects	
Other adverse effects Effect on the ozone layer	This substance may be hazardous to the environment.No additional information available

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SECTION 13: Disposal consi	derations				
13.1. Disposal methods					
Product/Packaging disposal recomment Ecological information	Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.				
SECTION 14: Transport info	rmation				
In accordance with DOT / TDG / IMDG	i / IATA				
DOT	TDG	IMDG	ΙΑΤΑ		
14.1. UN number	·				
Not regulated for transport					
14.2. Proper Shipping Name					
Not applicable Not applicable		Not applicable	Not applicable		
Transport document description					
Not applicable	Not applicable	Not applicable	Not applicable		
14.3. Transport hazard class(es	;)				
Not applicable	Not applicable	Not applicable	Not applicable		
14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards	14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: N	No Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No		

No supplementary information available

14.6. Special precautions for user

DOT

No data available

TDG

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

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Name	CAS-No.	J	Commercial status	Flags
(Phenyl-methylsilsesquioxane)- (phenylmethylsiloxane)(diphenylsiloxane) tetrapolymer	181186-36-7	Present	Active	XU

15.2. International regulations

CANADA

(Phenyl-methylsilsesquioxane)-(phenylmethylsiloxane)(diphenylsiloxane) tetrapolymer (181186-36-7)

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

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 informat	tion
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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.
Hazard Rating Health Flammability Physical	 1 Slight Hazard - Irritation or minor reversible injury possible 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) 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 affa Issue date: 04/09/2015 Revision date:	

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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