

MATERIAL SAFETY DATA SHEET

Section 1 – Identification

Product Name: Foley Catheter, 3-way Product Size: Various Product Numbers COVERED: GMID3F16FR Manufacturer: Greystone Medical LLC Address: 7433 Pine Creek Trail Suite #B City: Waterford State: MI ZIP: 48327 Country: US Phone Number: 248-919-8491

[MATERIAL A – C6-235 ELASTOMER]

Section 2 - Hazards Identification

Emergency Overview Appearance : Rubber-Crepe Colour : Colorless to pale yellow Odour : No data available Not a hazardous substance or mixture.

GHS Classification: Not a hazardous substance or mixture.
GHS Label element: Not a hazardous substance or mixture.
Physical and chemical hazards: Not classified based on available information.
Health hazards: Not classified based on available information.
Environmental hazards: Not classified based on available information.
Other hazards which do not result in classification: None known

Section 3 - Composition/Information on Ingredients

Substance / Mixture: Mixture

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Silicon dioxide	7631-86-9	>= 20 - < 30
Octamethylcyclotetrasiloxane	556-67-2	>= 0.1 - < 1



Section 4 - First Aid Measures If inhaled	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	None known.
Protection of first-aiders	No special precautions are necessary for first aid responders.
Notes to physician	Treat symptomatically and supportively.
Section 5 - Fire Fighting Measures Suitable extinguishing media	Water spray, Alcohol-resistant foam, Carbon dioxide (CO2), Dry chemical
Unsuitable extinguishing media	None known.
Specific hazards during fire- fighfing	Exposure to combustion products may be a hazard to health.
Hazardous combustion products	Carbon oxides, Silicon oxides, Formaldehyde
Specific extinguishing methods	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area
Special protective equipment	Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment.



Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	 Sweep up or vacuum up spillage and collect in suitable container for disposal. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements

Section 7 - Handling and Storage HANDLING	
Technical measures	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section
Local/Total ventilation	Use only with adequate ventilation.
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Take care to prevent spills, waste and minimize release to the environment.
STORAGE	
Avoidance of contact	Oxidizing agents
Conditions for safe storage	Keep in properly labelled containers. Store in accordance with the particular national regulations.
Materials to avoid	
Materials to avoid	Do not store with the following product types: Strong oxidizing agents
Packaging material	Unsuitable material: None know



Section 8 - Exposure Controls/Personal Protection

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Silicon dioxide	7631-86-9	PC-TWA	5 mg/m3	GBZ 2.1-
Octamethylcyclotetrasiloxane	556-67-2	(Total dust) TWA	10 ppm	2007 DCC OEL
Engineering measures	Processing ma Ensure adequa	y form hazardou	is compounds (see se specially in confined	ction10).
Personal protective equipment Respiratory protection	No personal re	spiratory protec	tive equipment norm	nally required
Eye/face protection	Wear the following personal protective equipment: safety glasses			
Skin and body protection	Skin should be	washed after co	ontact.	
Hand protection Remarks	Wash hands be	efore breaks and	l at the end of workd	ay.
Hygiene measure	close to the wo When using do Wash contami These precauti	orking place. o not eat, drink c nated clothing b ions are for roon erature or aeros		ing. Use at

Section 9 - Physical/Chemical Properties

Appearance	Rubber-Crepe
Colour	Colorless to pale yellow
Odour	No data available
Odour Threshold	No data available
рН	Not applicable
Melting point/freezing point	No data available
Initial boiling point and boiling range	Not applicable
Flash point	> 100 °C; Method: closed cup



Evaporation rate Flammability (solid, gas) Upper explosion limit Lower explosion limit Vapour pressure Relative vapour density Relative density	Not applicable Not classified as a flammability hazard No data available Not applicable No data available 1.11
Solubility(ies) Water solubility Partition coefficient: noctanol/water Auto-ignition temperature Decomposition temperature	No data available No data available No data available No data available
Viscosity Viscosity, dynamic Explosive properties Oxidizing properties Molecular weight	Not applicable Not explosive The substance or mixture is not classified as oxidizing. No data available
Section 10 - Stability and Reactivity Dat	
Reactivity	Not classified as a reactivity hazard
Chemical stability	Stable under normal conditions.
Chemical stability Possibility of hazardous reac-	Stable under normal conditions. Can react with strong oxidizing agents. When heated to temperatures above 150 °C (300 °F) in the presence of air, product can form formaldehyde vapours. Safe handling conditions may be maintained by keeping va- pour concentrations within the occupational exposure limit for formaldehyde. Hazardous decomposition products will be formed at elevated
Chemical stability Possibility of hazardous reac- tions	Stable under normal conditions. Can react with strong oxidizing agents. When heated to temperatures above 150 °C (300 °F) in the presence of air, product can form formaldehyde vapours. Safe handling conditions may be maintained by keeping va- pour concentrations within the occupational exposure limit for formaldehyde. Hazardous decomposition products will be formed at elevated temperatures.



Section 11 - Toxicological Information	
Exposure routes	Skin contact
	Ingestion
	Eye contact
Acute toxicity	Not classified based on available information.
Components: Silicon dioxide:	
Acute oral toxicity	LD50 (Rat): > 3,300 mg/kg Assessment: The substance or mixture has no acute oral tox-
	icity
	Remarks: Information taken from reference works and the literature.
Acute inhalation toxicity	LC50 (Rat): > 2.08 mg/l
	Exposure time: 4 h
	Test atmosphere: dust/mist
	Assessment: The substance or mixture has no acute inhala-
	tion toxicity
	Remarks: Information taken from reference works and the literature.
Acute dermal toxicity	LD50 (Rabbit): > 5,000 mg/kg
	Assessment: The substance or mixture has no acute dermal toxicity
	Remarks: Information taken from reference works and the
	literature.
Octamethylcyclotetrasioane:	
Acute oral toxicity	LD50 (Rat): > 4,800 mg/kg
	Assessment: The substance or mixture has no acute oral
	toxicity
	Remarks: Based on test data
Acute inhalation toxicity	LC50 (Rat): 2975 ppm
	Exposure time: 4 h Test atmosphere: vapour
	Assessment: The substance or mixture has no acute inhalation
	toxicity
	Remarks: Based on test data
Acute dermal toxicity	LD50 (Rabbit): > 2.5 ml/kg
	Assessment: The substance or mixture has no acute dermal
	toxicity
	Remarks: Based on test data



Skin corrosion/irritation Not classified based on available information.

Components: Silicon dioxide: Result: No skin irritation Remarks: Information taken from reference works and the literature.

Octamethylcyclotetrasioane: Species: Rabbit Result: No skin irritation Remarks: Based on test data

Serious eye damage/eye irritation Not classified based on available information.

Components: Silicon dioxide: Result: No eye irritation Remarks: Information taken from reference works and the literature. Octamethylcyclotetrasioane: Species: Rabbit Result: No eye irritation Remarks: Based on test data

Respiratory or skin sensitisation Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Components: Silicon dioxide: Assessment: Does not cause skin sensitisation. Test Type: Skin: test type not specified Species: Guinea pig Remarks: No known sensitising effect. Information taken from reference works and the literature. Octamethylcyclotetrasioane: Assessment: Does not cause skin sensitisation.

Test Type: Maximisation Test (GPMT) Species: Guinea pig Remarks: Based on test data



Germ cell mutagenicity Not classified based on available information.

Product:	
Genotoxicity in vitro	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Remarks: Based on test dat
Components: Silicon dioxide:	
Genotoxicity in vitro	Result: negative
	Remarks: Information taken from reference works and the literature.
Genotoxicity in vivo	Application Route: Ingestion Result: negative
	Remarks: Information taken from reference works and the literature.
Germ cell mutagenicity -Assessment	Animal testing did not show any mutagenic effects.
Octamethylcyclotetrasiloxane	
Genotoxicity in vitro	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Remarks: Based on test data
	Test Type: Mutagenicity (in vitro mammalian cytogenetic test) Result: negative
	Remarks: Based on test data
	Test Type: Chromosome aberration test in vitro Result: negative
	Remarks: Based on test data
	Test Type: In vitro sister chromatid exchange assay in mam- malian cells
	Result: negative
	Remarks: Based on test data
	Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro)
	Result: negative
	Remarks: Based on test data
Genotoxicity in vivo	Test Type: Mammalian erythrocyte micronucleus test (in vivo



cytogenetic assay) Species: Rat Application Route: inhalation (vapour) Result: negative Remarks: Based on test data

Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Rat Application Route: Ingestion Result: negative Remarks: Based on test data

Germ cell mutagenicity-assessment	Animal testing did not show any	v mutagenic effects.
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Carcinogenicity: Not classified based on available information. Reproductive toxicity: Not classified based on available information.

COMPONENTS

Octamethylcyclotetrasiloxane Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat, male and female Application Route: inhalation (vapour) Symptoms: Effects on fertility Remarks: Based on test data Effects on foetal development Test Type: Prenatal development toxicity study (teratogenicity) Species: Rabbit Application Route: inhalation (vapour) Symptoms: No effects on foetal development Remarks: Based on test data Some evidence of adverse effects on sexual function and Reproductive toxicity - Assessment fertility, based on animal experiments.

STOT - single exposure Not classified based on available information. STOT - repeated exposure Not classified based on available information. Components: Octamethylcyclotetrasiloxane: Exposure routes: Ingestion Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less. Exposure routes: inhalation (vapour) Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or



less.

Exposure routes: Skin contact Assessment: No significant health effects observed in animals at concentrations of 200 mg/kg bw or less

Repeated dose toxicity Components: Octamethylcyclotetrasiloxane: Species: Rat Application Route: Ingestion Remarks: Based on test data Species: Rat Application Route: inhalation (vapour) Remarks: Based on test data Species: Rabbit Application Route: Skin contact Remarks: Based on test data

Aspiration toxicity : Not classified based on available information. Further information

Octamethylcyclotetrasiloxane:

Remarks: Results from a 2 year repeated vapour inhalation exposure study to rats of octamethylcyclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus of female animals. This finding occurred at the highest exposure dose (700 ppm) only. Studies to date have not demonstrated if these effects occur through pathways that are relevant to humans. Based on the available information on its potential to cause harm to human health, Health Canada, in a 2008 screening assessment, has concluded that octamethylcyclotetrasiloxane is not entering the environment in a quantity or concentration or under conditions that constitute or may constitute a danger in Canada to human life or health (http://www.ec.gc.ca/eseees/default.asp?lang=En&n=2481B508—1). Repeated exposure in rats to D4 resulted in protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown.

Section 12 – Ecological Information Ecotoxicity Components: Octamethylcyclotetrasiloxane:	
Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.022 mg/l Exposure time: 96 h Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia sp.): > 0.015 mg/l Exposure time: 48 h



	Remarks: No toxicity at the limit of solubility
Toxicity to algae	EC50: > 0.022 mg/l Exposure time: 96 h Remarks: No toxicity at the limit of solubility
	NOEC: 0.022 mg/I Exposure time: 96 h Remarks: No toxicity at the limit of solubility
Toxicity to fish (Chronic toxicity)	NOEC (Oncorhynchus mykiss (rainbow trout)): >= 0.0044 mg/I Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC (Daphnia magna (Water flea)): > 0.0079 mg/l Exposure time: 21 cl Remarks: No toxicity at the limit of solubility
Toxicity to bacteria	C50: > 10,000 mg/I Method: ISO 8192
Ecotoxicology Assessment	
Chronic aquatic toxicity	May cause long lasting harmful effects to aquatic life.
Persistence and degradability Components:	
Octamethylcyclotetrasiloxane: Biodegradability	Result: Not readily biodegradable.
	Biodegradation: 3.7 %
	Exposure time: 28 Cl Method: OECD Test Guideline 310
Stability in water	Degradation half life: 69.3 - 144 h (24.6 °C) pH: 7 Method: OECD Test Guideline 111
Bioaccumulative potential Components:	
Octamethylcyclotetrasiloxane: Partition coefficient: noctanol/water	log Pow: 6.48 (25.1 °C)
Mobility in soil	No data available
Other adverse effects Components: Octamethylcyclotetrasiloxane:	



Results of PBT and vPvBRemarks: Octamethylcyclotetrasiloxane (D4) meets the current
REACh Annex X||| criteria for PBT and vPvB. In Canada, D4 has
been assessed and deemed to meet the PiT criteria.
However, D4 does not behave similarly to known PBT/vPvB
substances. The weight of scientific evidence from field studies
shows that D4 is not biomagnifying in aquatic and terrestrial
food webs. D4 in air will degrade by reaction with naturally
occurring hydroxyl radicals in the atmosphere. Any D4 in air that
does not degrade by reaction with hydroxyl radicals is not
expected to deposit from the air to water, to land, or to living
organisms.

Section 13 - Disposal Considerations

Disposal methods Waste from residues	Dispose of in accordance with local regulations.
Contaminated packaging	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14 – Transport Information

International Regulation	
UNRTDG	Not regulated as a dangerous good
IATA-DGR	Not regulated as a dangerous good
IMDG-Code	Not regulated as a dangerous good
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable for product as supplied.
National Regulations	

GB 6944/12268 Not regulated as a dangerous good

Section 15 – Regulatory Information

National regulatory information Law on Prevention and Control of Environment Pollution by Solid Waste Law on the Prevention and Control of Occupational Diseases

The components of this product are reported in the following inventories:REACHAll ingredients (pre-)registered or exempt.



TSCA	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
PICCS	All ingredients listed or exempt.
KECI	All ingredients listed, exempt or notified
ENCS/ISHL	All components are listed on ENCS/ISHL or exempted from inventory listing.
IECSC	All ingredients listed or exempt.
AICS	All ingredients listed or exempt.
DSL	All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZloC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

Section 16: Other Information

Greystone Medical LLC. is a registered Medical Devices manufacturer as designated by the FDA.

Disclaimer: This product is exempt from Safety Data Sheet regulations as the product is for consumer use. (Provided with this information by the compiling agencies):

This information contained in this SDS is offered as a guide to the handling of this specific material. The information contained in this Safety Data Sheet (SDS) is offered as a guide to the use and handling of this material. It has been prepared in good faith by technically knowledgeable

Personnel and it believed to be correct as of the effective date listed. All safety aspects of all Greystone Medical's products are thoroughly evaluated prior to commercialization Greystone Medical shall not be held liable for any damages, losses or injuries of any nature which may result from the use of or reliance upon any information contained in this SDS. Each individual should make a determination as to the suitability of the information for his or her particular purpose(s). Greystone Medical, LLC and the United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent



professional advice to verify and assume responsibility for the suitability of this information to their particular situation.

[MATERIAL B – C6-265 ELASTOMER]

Section 2 - Hazards Identification

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

GHS Classification: Not a hazardous substance or mixture. GHS Label element: Not a hazardous substance or mixture. Other hazards which do not result in classification: None known

Section 3 - Composition/Information on Ingredients

Substance / Mixture: Mixture Chemical Nature: Silicone Elastomer

Hazardous components

Chemical name	CAS-No.	Concentration (%
		w/w)
Octamethylcyclotetrasiloxane	556-67-2	>= 0.1 - < 1

Section 4 - First Aid Measures

General advice	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical
If inhaled	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	Wash with water and soap as a precaution. Get medical attention if symptoms occur. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	Flush eyes with water as a precaution.



	Get medical attention if irritation develops and persists.
If swallowed	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	None known.
Protection of first-aiders	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
Notes to physician	Treat symptomatically and supportively.
Section 5 - Fire Fighting Measures Suitable extinguishing media	Water spray, Alcohol-resistant foam, Carbon dioxide (CO2), Dry chemical
Unsuitable extinguishing media	None known.
Specific hazards during fire- fighfing	Exposure to combustion products may be a hazard to health.
Hazardous combustion products	Carbon oxides, Silicon oxides, Formaldehyde
Specific extinguishing methods	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area
Special protective equipment	Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment.

Section 6 – Accidental Release Measures

Personal precautions, protective	Use personal protective equipment.
equipment and emergency	Follow safe handling advice and personal protective equipment
procedures	recommendations.



Environmental precautions	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements
Section 7 - Handling and Storage HANDLING	
Technical measures	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section
Local/Total ventilation	Use only with adequate ventilation.
Advice on safe handling	Do not swallow.

Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice. Take care to prevent spills, waste and minimize release to the environment. STORAGE Conditions for safe storage Keep in properly labelled containers. Store in accordance with the particular national regulations. Materials to avoid Materials to avoid Do not store with the following product types: Strong oxidizing agents Packaging material Unsuitable material: None know



Section 8 - Exposure Controls/Personal Protection

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Octamethylcyclotetrasiloxane	556-67-2	TWA	10 ppm	US WEEL
Engineering measures	Ensure adequa	•	s compounds (see se specially in confined concentrations.	•
Personal protective equipment Respiratory protection	tilation is prov exposures are	ided or exposure within recomme	ess adequate local ex e assessment demons ended exposure guide	strates that
Filter type	Organic vapou	r type		
Hand protection Material Remarks	-	to protect hand	s against chemicals d Itity of the hazardous	
	stance and spe determined fo applications, w chemicals of tl	ecific to place of r the product. Cl ve recommend c ne aforemention cturer. Wash han	work. Breakthrough t hange gloves often! F larifying the resistand ed protective gloves ds before breaks and	time is not or special te to with the
Eye protection	Wear the follo Safety glasses	wing personal p	rotective equipment:	
Skin and body protection	sistance data a Skin contact m	and an assessme	lothing based on che nt of the local exposu by using impervious p , etc).	ire potential.
Hygiene measures	located close t	e flushing syster o the working pl o not eat, drink c		s are



Wash contaminated clothing before re-use. These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

Section 9 - Physical/Chemical Properties

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Appearance	Rubber-Crepe
Colour	Colorless to pale yellow
Odour	No data available
Odour Threshold	No data available
рН	Not applicable
Melting point/freezing point	No data available
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not classified as a flammability hazard
Self-ignition	The substance or mixture is not classified as pyrophoric. The
	substance or mixture is not classified as self heating.
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapour pressure	Not applicable
Relative vapour density	No data available
Relative density	1.23
Colubility(icc)	
Solubility(ies)	
Water solubility	No data available
Partition coefficient: noctanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	
Viscosity, dynamic	Not applicable
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.
Molecular weight	No data available
5	
Section 10 - Stability and Reactivity Data	
Reactivity	Not classified as a reactivity hazard

Chemical stability Stable under normal conditions.
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Possibility of hazardous reactions	Can react with strong oxidizing agents. When heated to temperatures above 150 °C (300 °F) in the presence of air, product can form formaldehyde vapours. Safe handling conditions may be maintained by keeping va- pour concentrations within the occupational exposure limit for formaldehyde. Hazardous decomposition products will be formed at elevated temperatures.
Conditions to avoid	None known
Incompatible materials	Oxidizing agents
Hazardous decomposition products Thermal decomposition	Formaldehyde
Section 11 - Toxicological Information Exposure routes	Skin contact Ingestion Eye contact
Acute toxicity	Not classified based on available information.
Components: Silicon dioxide: Acute oral toxicity	LD50 (Rat): > 4,800 mg/kg Assessment: The substance or mixture has no acute oral tox- icity Remarks: On basis of test data
Acute inhalation toxicity	LC50 (Rat): 2975 ppm Exposure time: 4 h Test atmosphere: vapour Assessment: The substance or mixture has no acute inhala- tion toxicity Remarks: On basis of test data.
Acute dermal toxicity	LD50 (Rabbit): > 2.5 ml/kg Assessment: The substance or mixture has no acute dermal toxicity Remarks: On basis of test data.



Octamethylcyclotetrasioane: Acute oral toxicity	LD50 (Rat): > 4,800 mg/kg Assessment: The substance or mixture has no acute oral toxicity Remarks: Based on test data
Acute inhalation toxicity	LC50 (Rat): 2975 ppm Exposure time: 4 h Test atmosphere: vapour Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Based on test data
Acute dermal toxicity	LD50 (Rabbit): > 2.5 ml/kg Assessment: The substance or mixture has no acute dermal toxicity Remarks: Based on test data

Skin corrosion/irritation: Not classified based on available information.

Components: Octamethylcyclotetrasioane: Species: Rabbit Result: No skin irritation Remarks: Based on test data

Serious eye damage/eye irritation Not classified based on available information.

Components: Octamethylcyclotetrasioane: Species: Rabbit Result: No eye irritation Remarks: Based on test data

Respiratory or skin sensitisation Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Components: Information taken from reference works and the literature. Octamethylcyclotetrasioane: Assessment: Does not cause skin sensitisation.



Test Type: Maximisation Test Species: Guinea pig Result: negative Remarks: On basis of test data.

Germ cell mutagenicity Not classified based on available information.

Components:	
Octamethylcyclotetrasiloxane	
Genotoxicity in vitro	Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on test data
	Test Type: Mutagenicity (in vitro mammalian cytogenetic test) Result: negative Remarks: Based on test data
	Test Type: Chromosome aberration test in vitro Result: negative Remarks: Based on test data
	Test Type: In vitro sister chromatid exchange assay in mam- malian cells Result: negative Remarks: Based on test da
	Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Result: negative Remarks: Based on test d
Genotoxicity in vivo	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: inhalation (vapour) Result: negative Remarks: Based on test data
	Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Rat



Application Route: Ingestion Result: negative Remarks: Based on test data

Germ cell mutagenicity-assessment Animal testing did not show any mutagenic effects.

Carcinogenicity: Not classified based on available information. Reproductive toxicity: Not classified based on available information.

COMPONENTS Octamethylcyclotetrasiloxane	
Effects on fertility	Test Type: Two-generation reproduction toxicity study
	Species: Rat, male and female
	Application Route: inhalation (vapour)
	Symptoms: Effects on fertility
	Remarks: Based on test data
Effects on foetal development	Test Type: Prenatal development toxicity study (teratogenicity) Species: Rabbit
	Application Route: inhalation (vapour)
	Symptoms: No effects on foetal development
	Remarks: Based on test data
Reproductive toxicity - Assessment	Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

STOT - single exposure : Not classified based on available information. STOT - repeated exposure : Not classified based on available information.

Components:

Octamethylcyclotetrasiloxane:

Exposure routes: Ingestion

Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Exposure routes: inhalation (vapour)

Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

Exposure routes: Skin contact

Assessment: No significant health effects observed in animals at concentrations of 200 mg/kg bw or less

Repeated dose toxicity Components: Octamethylcyclotetrasiloxane:



Species: Rat Application Route: Ingestion Remarks: Based on test data Species: Rat Application Route: inhalation (vapour) Remarks: Based on test data Species: Rabbit Application Route: Skin contact Remarks: Based on test data

Aspiration toxicity : Not classified based on available information.

Further information

Octamethylcyclotetrasiloxane:

Remarks: Results from a 2 year repeated vapour inhalation exposure study to rats of octamethylcyclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus of female animals. This finding occurred at the highest exposure dose (700 ppm) only. Studies to date have not demonstrated if these effects occur through pathways that are relevant to humans. Repeated exposure in rats to D4 resulted in protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown.

Section 12 – Ecological Information

Ecotoxicity	
Components:	
Octamethylcyclotetrasiloxane:	
Toxicity to fish	LC50 (Cyprinodon variegatus (sheepshead minnow)): > 0.0063 mg/l Exposure time: 336 h
	Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	EC50 (Mysidopsis bahia (opossum shrimp)): > 0.0091 mg/l Exposure time: 96 h
	Remarks: No toxicity at the limit of solubility
Toxicity to algae	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 0.022 mg/l
	Exposure time: 72 h
	Remarks: No toxicity at the limit of solubility
Toxicity to fish (Chronic toxicity)	NOEC: >= 0.0044 mg/l
	Species: Oncorhynchus mykiss (rainbow trout)



	Remarks: On basis of test data. No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC: >= 0.0079 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Remarks: On basis of test data. No toxicity at the limit of solubility
Ecotoxicology Assessment Chronic aquatic toxicity	May cause long lasting harmful effects to aquatic life.
Persistence and degradability Components: Octamethylcyclotetrasiloxane: Biodegradability	Result: Not readily biodegradable. Biodegradation: 3.7 % Exposure time: 28 d Method: OECD Test Guideline 310
Stability in water	Degradation half life: 69.3 - 144 h (24.6 °C) pH: 7 Method: OECD Test Guideline 111
Bioaccumulative potential Components: Octamethylcyclotetrasiloxane: Partition coefficient: noctanol/water	log Pow: 6.48 (25.1 °C)
Mobility in soil	No data available
Other adverse effects Components: Octamethylcyclotetrasiloxane: Results of PBT and vPvB	Remarks: Octamethylcyclotetrasiloxane (D4) meets the current REACh Annex X criteria for PBT and vPvB. In Canada, D4 has been assessed and deemed to meet the PiT criteria. However, D4 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D4 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living



organisms.

Section 13 - Disposal Considerations

Disposal methods Waste from residues	Dispose of in accordance with local regulations.
Contaminated packaging	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14 – Transport Information

International Regulation UNRTDG	Not regulated as a dangerous good
IATA-DGR	Not regulated as a dangerous good
IMDG-Code	Not regulated as a dangerous good
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable for product as supplied.

Section 15 – Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

The components of this product are rep REACH	oorted in the following inventories: All ingredients (pre-)registered or exempt.
TSCA	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
PICCS	All ingredients listed or exempt.
KECI	All ingredients listed, exempt or notified
ENCS/ISHL	All components are listed on ENCS/ISHL or exempted from inventory listing.
IECSC	All ingredients listed or exempt.



AICS

All ingredients listed or exempt.

DSL

All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

Section 16: Other Information

Greystone Medical LLC. is a registered Medical Devices manufacturer as designated by the FDA.

Disclaimer: This product is exempt from Safety Data Sheet regulations as the product is for consumer use. (Provided with this information by the compiling agencies):

This information contained in this SDS is offered as a guide to the handling of this specific material. The information contained in this Safety Data Sheet (SDS) is offered as a guide to the use and handling of this material. It has been prepared in good faith by technically knowledgeable

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