

SpecSilane 20 WB

Version 1

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SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

 1.1 Trade Name (as labeled): Synonyms: CAS No: 1.2 Product Use: 1.3 Company Name: Company Address: Company Address Cont: Business Phone: Website: 1.4 Emergency Telephone Number: Date of Last Revision: Date of Current Revision: 	SpecSilane 20 WB N/A Mixture Penetrating sealer for concrete surfaces SpecChem 1511 Baltimore Ave; Suite 600 Kansas City, MO 64108 (816) 968-5600 www.specchemIlc.com VelocityEHS 1-(800)255-3924 (North America) +1-813-248- 0585 (International) 1-300-954-583 (Australia) 0-800-591-6042 (Brazil) 400-120-0751 (China) 000-800-100-4086 (India) 800- 099-0731 (Mexico) October 16, 2015 July 1, 2018	
SECTION 2 – HAZARDS IDENTIFICATION		
US DOT Symbols:	Warning	
EU and GHS Symbols:		
Signal Word:	Warning	
Components Contributing to Classification	on: Triethoxyoctylsilane, Dimethyl siloxane with aminoethylaminopropyl silsesquioxane, hydroxy-term	
2.2 Label Elements: GHS Hazard Classifications:	Skin Irritation – Category 2 Eye Irritation – Category 2A Reproductive toxicity – Category 2	
Hazard Statements:	H315 Causes skin irritation. H319 Causes serious eye irritation. H361 Suspected of damaging fertility or the unborn child	
Precautionary Statements:	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing spray. P264 Wash skin thoroughly after handling.	



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Response Statements:	 P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P332 + P313 If skin irritation occurs: Get medical advice/ attention.
Storage Statements:	P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse. Store locked up.
Disposal Statements:	Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Percent	CAS No.
Triethoxyoctylsilane	>= 10 - < 20	2943-75-1
Dimethyl siloxane with aminoethylaminopropyl silsesquioxane, hydroxy-term	>= 1 - < 5	68554-54-1
Ethoxylated lauryl alcohol	>= 1 - < 5	9002-92-0
Octamethylcyclotetrasiloxane	>= 0.1 - < 1	556-67-2
Methanol	>= 0.1 - < 1	67-56-1
Hexadecyltrimethyl ammonium chloride	>= 0.1 - < 1	112-02-7
Water	30 – 90	7732-18-5
Tetradodium EDTA	<.1	64-02-8
Ethyleneediaminetriacetic acid, trisodium salt	<.1	19019-43-3

Note: All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

SECTION 4 – FIRST AID MEASURES

4.1 Description of First Aid Measures:

General Advice: In the case of accident or if you feel unwell, seek medical advice



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	immediately. When symptoms persist or in all cases of doubt seek medical advice.
Eye contact :	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
Inhalation :	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Skin contact :	In case of contact, immediately flush skin with plenty of water for at least 15
	minutes while removing contaminated clothing and shoes. Get medical attention.
Indestion .	Wash clothing before reuse. I horoughly clean shoes before reuse.
ingestion .	Rinse mouth thoroughly with water.
Most importan	t symptoms/effects, acute and delayed
Potential acute	e health effects
Causes skin irri child.	tation. Causes serious eye irritation. Suspected of damaging fertility or the unborn
Protection of f	irst-aiders [.]
First Aid respor	Iders should pay attention to self-protection, and use the recommended personal
protective equip	oment when the potential for exposure exists.
Indication of ir	nmodiate modical attention and energial treatment needed, if needesary
Notes to physi	cian : Treat symptomatically and supportively.
SECTION 5 – FIRE FIG	GHTING MEASURES
Fire Extinguis	ning Materials:
Suitable exting	Juishing media: Water spray, Alcohol-resistant foam, Dry chemical, Carbon
Unsuitable ext	inguishing media: None known.
Specific hazar	ds arising from the chemical: Exposure to combustion products may be a hazard to
	health.
Hazardous cor	(NOx)
Specific exting	juishing methods : Use extinguishing measures that are appropriate to local
	circumstances and the surrounding environment. Use water
	spray to cool unopened containers. Remove undamaged
Special protec	tive equipment for fire-fighters. In the event of fire, wear self-contained breathing
	apparatus. Use personal protective equipment.
SECTION 6 – ACCIDE	NTAL RELEASE MEASURES (STEPS FOR SPILLS)

Personal precautions, protective equipment and emergency procedures:



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Use personal protective equipment. 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.

Prevent spreading over a wide area (e.g. by containment or oil barriers). 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:

Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. 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

7.1 Precautions for Safe Handling:

Technical measures:	See Engineering measures under EXPOSURE CONTROL S/PERSONAL
	PROTECTION section.
Local/Total ventilation:	Use only with adequate ventilation.
Advice on safe handling	g: Do not get on skin or clothing. Avoid inhalation of vapor or mist. Do not
	swallow. Do not get in eyes. Handle in accordance with good industrial hygiene and safety practice. Keep away from water. Protect from moisture. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe stor	age : Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid:	Do not store with the following product types: Strong oxidizing agents

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Parameters:

Ingredients	<u>CAS-</u> <u>No.</u>	<u>Value Type</u> (Form of Exposure)	Control parameters/Permissible concentration	<u>Basis</u>
Octamethylcyclotetrasiloxane	556-67-2	TWA	10 ppm	DCC OEL
Methanol	67-56-1	TWA STEL TWA ST	200 ppm 250 ppm 200 ppm 260 mg/m3 250 ppm	ACGIH ACGIH NIOSH REL NIOSH REL
			325 mg/m3	OSHA Z-1

silsesquioxane, hydroxy-term Ethoxylated lauryl alcohol

Hexadecyltrimethyl ammonium chloride



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TWA	200 ppm 260 mg/m3	
Hazardous components without workplace cor	ntrol parameters:	
Ingredients	CAS-No.	
Triethoxyoctylsilane	2943-75-1	
Dimethyl siloxane with aminoethylaminopropyl	68554-54-1	

9002-92-0

112-02-7

Occupational exposure limits of decomposition products

Ingredients	<u>CAS-</u> No.	Value Type (Form of	Control parameters/Permissible	<u>Basis</u>
Mathemal	07.50.4			46684
Methanol	67-56-1	IVVA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm	NIOSH REL
			260 mg/m3	
		ST	250 ppm	NIOSH REL
			325 mg/m3	
		TWA	200 ppm	OSHA Z-1
			260 mg/m3	
Ethanol	64-17-5	TWA	1,000 ppm	OSHA Z-1
			1,900 mg/m3	
		TWA	1,000 ppm	
			1,900 mg/m3	
		STEL	1,000 ppm	ACGIH

Biological occupational exposure limits

Ingredients	CAS-No.	Control Parameters	Biological Specimen	<u>Basis</u>	Permissible Concentration	<u>Basis</u>
Methanol	67-56-1	Methanol	Urine	End of shift (as soon as possible after exposure)	15 mg/l	ACGIH BEI

Respiratory Protection:

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators



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Eye Protection: Hand Protection: Body Protection:	against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection. Wear the following personal protective equipment: Safety goggles Impervious gloves. Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
SECTION 9 – PHYSICAL AND CHEMICAL PROPE	ERTIES
 <u>9.1 Information on Basic Physical and Che</u> Appearance (Physical State and Color): w Odor: slight Odor Threshold: No data available pH: No data available Melting/Freezing Point: No data available Boiling Point: > 35°C Flash Point: > 100°C Evaporation Rate: No data available Flammability (Solid; Gas): Not applicable Upper/Lower Flammability or Explosion L Vapor Pressure (mm Hg @ 20°C (68° F): N Vapor Density: No data available Relative Density: 1.01 Specific Gravity: No data available Solubility in Water: Not miscible Weight per Gallon: No data available Partition Coefficient (n-octanol/water): No Auto-Ignition Temperature: No data available Decomposition Temperature: No data available 9.2 Other Information: No data available 	emical Properties: white, milky liquid imits: No data available lo data available o data available ble ilable
SECTION 10 – STABILITY AND REACTIVITY	
10.1 Reactivity: <u>10.2 Stability:</u> <u>10.3 Possibility of Hazardous Reactions</u> : compounds. Can react with strong oxidizing upon contact with water or humid air. Hazard temperatures.	This product is not reactive. Stable under conditions of normal storage and use. Use at elevated temperatures may form highly hazardous agents. Hazardous decomposition products will be formed dous decomposition products will be formed at elevated



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<u>10.4 Conditions to Avoid:</u> <u>10.5 Incompatible Substances:</u> <u>10.6 Hazardous Decomposition Products</u>	Exposure to moisture Oxidizing agents: water. <u>s:</u> Methanol, Ethanol.
SECTION 11 – TOXICOLOGY INFORMATION	
Information on likely routes of exposure	
Inhalation	
Skin contact	
Ingestion	
Eye contact	
Acute toxicity Not classified based on available informatio	n.
Product:	
Acute oral toxicity :	Acute toxicity estimate : > 5,000 mg/kg
A suite in baladiana ta visita y	Method: Calculation method
Acute innalation toxicity :	Acute toxicity estimate : > 40 mg/i
	Test atmosphere: vanor
	Method: Calculation method
Acute dermal toxicity ·	Acute toxicity estimate $> 5000 \text{ mg/kg}$
Addite definial textology .	Method: Calculation method
Ingredients:	
Triethoxyoctylsilane:	
Acute oral toxicity :	LD50 (Rat): > 5,110 mg/kg
	Assessment: The substance or mixture has no acute oral
	toxicity
Acute dermal toxicity :	LD50 (Rat): 6,730 mg/kg
	Assessment: The substance or mixture has no acute dermal
	toxicity
Etherndeted leveral else hals	Remarks: Based on test data
Ethoxylated lauryl alcohol:	DE0 (Bot) > 2000 mg/kg
Acute oral toxicity.	ED30 (Nai). > 2,000 mg/kg Romarks: Based on data from similar materials
Acute inhalation toxicity :	1 C50 (Rat) > 1.6 mg/l
Acute initialation toxicity .	Exposure time: 4 h
	Test atmosphere: dust/mist
	Remarks: Based on data from similar materials
Acute dermal toxicity :	LD50 (Rat): > 2,000 mg/kg
	Remarks: Based on data from similar materials
Octamethylcyclotetrasiloxane:	
Acute oral toxicity :	LD50 (Rat): > 4,800 mg/kg
	Assessment: The substance or mixture has no acute oral
	toxicity
A suite in his lation to the little	Remarks: Based on test data
Acute innalation toxicity :	LUSU (Kat): 2975 ppm



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Acute dermal toxicity :	Exposure time: 4 h Test atmosphere: vapor Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Based on test data LD50 (Rabbit): > 2.5 ml/kg Assessment: The substance or mixture has no acute dermal toxicity Remarks: Based on test data
Methanol:	
Acute oral toxicity :	Acute toxicity estimate (Humans): 300 mg/kg Method: Expert judgment
Acute inhalation toxicity :	Acute toxicity estimate (Humans): 3 mg/l Test atmosphere: vapor Method: Expert judgment
Acute dermal toxicity :	Acute toxicity estimate (Humans): 300 mg/kg Method: Expert judgment
Hexadecyltrimethyl ammonium chlo	
Acute oral toxicity :	LD50 (Rat): 699 mg/kg Method: OECD Test Cuideline 401
Acute dermal toxicity :	Method: OECD Test Guideline 401 LD50 (Rabbit): 528 mg/kg Method: OECD Test Guideline 402 Remarks: Based on data from similar materials
Skin corrosion/irritation Causes skin irritation. Ingredients: TriethoxyoctyIsilane: Species: Rabbit Result: Skin irritation Remarks: Based on test data	
Dimethyl siloxane with aminoethyla Result: Skin irritation Remarks: Based on data from similar r	minopropyl silsesquioxane, hydroxy-term: naterials
Ethoxylated lauryl alcohol: Result: No skin irritation Remarks: Based on data from similar r	materials
Octamethylcyclotetrasiloxane: Species: Rabbit Result: No skin irritation Remarks: Based on test data	
Methanol: Species: Rabbit Result: No skin irritation	



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	Hexadecyltrimethyl ammonium chloride:	
	Species: Rabbit	
	Result: Corrosive after 1 to 4 hours of exposure	
	Remarks: Based on data from similar materials	
	Serious eye damage/eye irritation	
	Causes serious eye irritation.	
	Ingredients:	
	I rietnoxyoctyisiiane:	
	Species. Rabbit Result: No eve irritation	
	Remarks: Based on test data	
	Dimethyl siloxane with aminoethylaminopropyl silsesquioxane, hydroxy-term:	
	Result: Initiation to eyes, reversing within 21 days Remarks: Based on data from similar materials	
	Ethoxylated lauryl alcohol:	
	Result: Irreversible effects on the eye	
	Remarks: Based on data from similar materials	
	Octamethylcyclotetrasiloxane:	
	Species: Rabbit	
	Result: No eye irritation	
	Remarks: Based on test data	
	Methanol:	
	Species: Rabbit	
	Result: No eye irritation	
	Hexadecyltrimethyl ammonium chloride:	
	Species: Babbit	
	Result: Irreversible effects on the eye	
	_	
	Respiratory or skin sensitization	
	Skin sensitization. Not classified based on available information.	
	Ingredients:	
	Ethoxylated lauryl alcohol:	
	Test Type: Maximization Test (GPMT)	
	Routes of exposure: Skin contact	
	Species: Guinea pig	
	Result: negative Demorke: Depend on data from similar materials	
	Remarks. Based on data from similar materials	
	Octamethylcyclotetrasiloxane:	
	Assessment: Does not cause skin sensitization.	
	Test Type: Maximization Test (GPMT)	
	Species: Guinea pig	



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Remarks: No known sensitisin Based on test data	g effect.
Methanol: Test Type: Maximization Test Routes of exposure: Skin cont Species: Guinea pig Result: negative	(GPMT) act
Hexadecyltrimethyl ammoni Test Type: Buehler Test Routes of exposure: Skin cont Species: Guinea pig Method: OECD Test Guideline Result: negative	um chloride: act ± 406
Germ cell mutagenicity Not classified based on availal Ingredients:	ble information.
Genotoxicity in vitro :	Test Type: Mutagenicity (in vitro mammalian cytogenetic test) Result: negative Remarks: Based on test data
Ethoxylated lauryl alcohol:	
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
Octamethylcyclotetrasiloxar	16:
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 mammalian cells Result: negative Remarks: Based on test data Test Type: DNA damage and repair, unscheduled DNA synthesis 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) Test species: Rat Application Route: inhalation (vapor)



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	Result: negative
	Remarks: Based on test data
	Test Type: Rodent dominant lethal test (germ cell) (in vivo)
	Test species: Rat
	Application Route: Ingestion
	Result: negative
	Remarks: Based on test data
Germ cell mutagenicity- : Assessment	Animal testing did not show any mutagenic effects.
Methanol:	Test Type: Desterial reverse mutation appay (AMES)
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES)
	Method: OECD Test Guideline 4/1
	Result: negative
	Test Type: In vitro mammalian cell gene mutation test
	Method: OECD Test Guideline 4/6
	Result: negative
Genotoxicity in vivo :	Test Type: Mammalian erythrocyte micronucleus test (in vivo
	cytogenetic assay)
	Test species: Mouse
	Application Route: Intraperitoneal injection
	Result: negative
Hexadecyltrimethyl amm	onium chloride:
2	Genotoxicity in vitro : Test Type: Chromosome aberration test in
	vitro
	Method: OECD Test Guideline 473
	Result: negative
Carcinogenicity	
Not classified based on av	ailable information.
Ingredients:	
Methanol:	
Species: Mouse	
Application Route: inhalatic	n (vanor)
Exposure time: 18 Months	
Method: OECD Test Guide	line 453
Result: negative	
	No ingredient of this product present at levels greater than or
IANO	equal to 0.1% is identified as probable, possible or confirmed
	human carcingen by IARC
	No ingradiant of this product present at lovels greater than an
USHA	no ingreurent of this product present at levels greater than of equal to 0.1% is identified as a carsing con a restantial
NTD	carcinogen by USHA.
NIP	ino ingredient of this product present at levels greater than or
	equal to 0.1% is identified as a known or anticipated carcinogen
	by NTP.



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	Ingredients:		
	Triethoxyoctylsilane:		
	Effects on fertility :	Test Type: Combined repeated dose toxicity study with the	
		reproduction/developmental toxicity screening test	
		Species: Rat, male and remale	
		Application Route: Ingestion	
		Symptoms. No enects on renting.	
	Effects on fetal development :	Test Type: Combined repeated dose toxicity study with the	
		reproduction/developmental toxicity screening test	
		Species: Rat, male and female	
		Application Route: Ingestion	
		Symptoms: No effects on fetal development.	
		Remarks: Based on test data	
	Reproductive toxicity - Assessm	nent : No evidence of adverse effects on sexual function and	
		fertility, or on development, based on animal experiments.	
	Octamethylcyclotetrasiloxane); 	
	Effects on fertility :	Test Type: Two-generation reproduction toxicity study	
		Species: Rat, male and remale	
		Symptoms: Effects on fortility	
		Remarks: Based on test data	
	Effects on fetal development :	Test Type: Prenatal development toxicity study (teratogenicit	tv)
		Species: Rabbit	(y)
		Application Route: inhalation (vapor)	
		Symptoms: No effects on fetal development.	
		Remarks: Based on test data	
	Reproductive toxicity - Assessm	nent : Some evidence of adverse effects on sexual function an	nd
		fertility, based on animal experiments.	
	Mathanali		
	Methanol:	Test Type: Fortility/serly embryonic development	
	Ellects of fertility.	Species: Mouse	
		Application Route: Ingestion	
		Result: negative	
	Effects on fetal development :	Test Type: Embryo-fetal development	
		Species: Mouse	
		Application Route: Ingestion	
		Method: OECD Test Guideline 414	
		Result: positive	
		Remarks: The effects were seen only at maternally toxic dos	ses.
	Hovadooy/trimathy/ ammaniy	m chlorido:	
	Effects on fertility	Test Type: Two-generation reproduction toxicity study	
	Encots on fertility.	Species: Rat	
		Application Route: Ingestion	
		······································	



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Effects on fetal development :	Method: OECD Test Guideline 416 Result: negative Remarks: Based on data from similar materials Test Type: Embryo-fetal development Species: Rabbit Application Route: Skin contact Result: negative			
Not classified based on availab	ble information.			
Ingredients:				
Methanol:				
Assessment: Causes damage	to organs.			
STOT-repeated exposure				
Not classified based on availal	ble information.			
Triethoxyoctylsilane:				
Routes of exposure: Ingestion				
Assessment: No significant he	alth effects observed in animals at concentrations of 100 mg/kg			
DW OF IESS.	ю.			
Routes of exposure: Ingestion	Routes of exposure: Ingestion			
Assessment: No significant he	Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg			
bw or less. Boutos of exposure: inhelation	bw or less. Routes of exposure: inholation (vapor)			
Assessment: No significant he less.	alth effects observed in animals at concentrations of 1 mg/l/6h/d or			
Routes of exposure: Skin cont Assessment: No significant he	act alth effects observed in animals at concentrations of 200 mg/kg bw or			
less				
Repeated dose toxicity				
Triethoxvoctvlsilane:				
Species: Rat				
Application Route: Ingestion				
Remarks: Based on test data Ethoxylated lauryl alcohol:				
Species: Rat				
NOAEL: >= 100 mg/kg				
Application Route: Ingestion				
Exposure time: 90 d Method: OECD Test Guideline	408			
Remarks: Based on data from	similar materials			
Octamethylcyclotetrasiloxar	e:			
Species: Rat				
Application Route: Ingestion				
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TriethoxyoctyIsilane: Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia sp.): > 0.049 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: No toxicity at the limit of solubility.



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Toxicity to algae:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 0.13 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility
Ethoxylated lauryl alcohol:	Remarks. No toxicity at the innit of solubility.
Toxicity to fish :	LC50 (Danio rerio (zebra fish)): > 1 - 10 mg/l Exposure time: 96 h
Toxicity to daphnia and other	
aquatic invertebrates:	EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 48 h
Toxicity to algae :	EC50 (Pseudokirchneriella subcapitata (green algae)): > 0.1 - 1 mg/l Exposure time: 72 h Remarks: Based on data from similar materials
	NOEC (Pseudokirchneriella subcapitata (green algae)): > 0.1 - 1 mg/l Exposure time: 72 h Remarks: Based on data from similar materials
M-Factor (Acute aquatic toxicity : Toxicity to fish (Chronic toxicity) :	1 NOEC (Lepomis macrochirus (Bluegill sunfish)): > 0.1 - 1 mg/l Exposure time: 30 d Romarke: Based on data from similar materials
Tovicity to dephaic and other	Remarks. Dased on data nom similar materials
aquatic invertebrates (Chronic toxicity)	NOEC (Daphnia magna (Water flea)): > 0.1 - 1 mg/l Exposure time: 21 d
Octomothylovolototrocilovonov	Remarks: Based on data from similar materials
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
Toxicity to algae :	Remarks: No toxicity at the limit of solubility. EC50 (Pseudokirchneriella subcapitata (green algae)): >0.022 mg/l
Toxicity to fish (Chronic toxicity) :	Exposure time: 96 h Remarks: No toxicity at the limit of solubility. NOEC (Pseudokirchneriella subcapitata (green algae)): 0.022 mg/l Exposure time: 96 h NOEC (Oncorhynchus mykiss (rainbow trout)): >=0.0044 mg/l
	Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other	Remarks. No toxicity at the inflit of solubility.



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aquatic invertebrates (Chronic toxicity): NOEC (Daphnia sp.): > 0 Exposure time: 21 d Remarks: No toxicity at th	.0079 mg/l ne limit of solubility.
M-Factor (Chronic aquatic toxicity) : 1 Toxicity to bacteria : IC50: > 10,000 mg/l Method: ISO 8192	
Ecotoxicology Assessment Chronic aquatic toxicity : May cause long lasting h	armful effects to aquatic life.
Methanol: Toxicity to fish : LC50 (Lepomis macrochi mg/l	rus (Bluegill sunfish)): 15,400
Exposure time: 96 h Toxicity to daphnia and other Aquatic invertebrates: EC50 (Daphnia magna (V	M_{ater} flea)): > 10,000 mg/l
Toxicity to algae : EC50 (Daphina magna (Exposure time: 48 h EC50 (Pseudokirchnerie)	la subcapitata (green algae)):
22,000 mg/l Exposure time: 96 h Method: OPPTS 850.540	0
Toxicity to fish (Chronic toxicity): NOEC (Oryzias latipes (C mg/l Exposure time: 200 h	Drange-red killifish)): 15,800
Toxicity to bacteria : EC50: 20,000 mg/l Exposure time: 15 h	
Hexadecyltrimethyl ammonium chloride:	fich)): 0.10 mg/l
ECCO (Danio Teno (260) Exposure time: 96 h Method: OECD Test Guid	deline 203
Toxicity to daphnia and other	
Aquatic invertebrates: EC50 (Daphnia magna (V Exposure time: 48 h	Nater flea)): 0.09 mg/l
Toxicity to algae: EC50 (Pseudokirchneriell 0.05 mg/l Exposure time: 72 h	la subcapitata (green algae)):
Method: OECD Test Guid EC10 (Pseudokirchneriell 0.047 mg/l	deline 201 la subcapitata (green algae)):
Exposure time: 72 h Method: OECD Test Guid	deline 201
M-Factor (Acute aquatic toxicity) : 10 Toxicity to fish (Chronic toxicity) : NOEC (Pimephales prom µg/l Exposure time: 28 d	nelas (fathead minnow)): 32.2
Remarks: Based on dataToxicity to daphnia and other aquaticInvertebrates (Chronic toxicity):NOEC (Daphnia magna (Exposure time: 21 d	from similar materials (Water flea)): 6.8 μg/l



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	Remarks: Based on data from similar materials	
M-Factor (Acute aquatic toxicity): Toxicity to bacteria :	1 EC50 (Pseudomonas putida): 0.96 mg/l Exposure time: 16 h Method: DIN 38 412 Part 8	
Persistence and degradability Ingredients: Triethoxyoctylsilane:	Methou. Din 36 412 Fait 6	
Biodegradability :	Result: Not readily biodegradable. Biodegradation: 31.5 % Method: OECD Test Guideline 301D Remarks: Based on test data	
Ethoxylated lauryl alcohol: Biodegradability :	Result: rapidly degradable Remarks: Based on data from similar materials	
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	
Methanol: Biodegradability :	Result: Readily biodegradable. Biodegradation: 95 % Exposure time: 20 d	
Hexadecyltrimethyl ammonium chloride Biodegradability :	Result: Readily biodegradable. Biodegradation: 93.5 % Exposure time: 28 d Method: OECD Test Guideline 301D	
Bioaccumulative potential Ingredients: Triethoxyoctylsilane:		
Partition coefficient: n- octanol/water :	log Pow: 6.41 Method: OECD Test Guideline 117	
Ethoxylated lauryl alcohol: Bioaccumulation :	Bioconcentration factor (BCF): < 500 Remarks: Based on data from similar materials	
Octamethylcyclotetrasiloxane: Partition coefficient: n- octanol/water:	log Pow: 6.48 (25.1 °C)	
Methanol: Bioaccumulation : Partition coefficient: n- octanol/water:	Species: Leuciscus idus (Golden orfe) Bioconcentration factor (BCF): < 10 log Pow: -0.77	



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Hexadecyltrimethyl ammonium chloride:				
Bioaccumulation :	Species: Lepomis macrochirus (Bluegill sunfish) Bioconcentration factor (BCF): 33 - 160 Remarke: Based on data from similar materials			
Mobility in soil No data available	Remains. Dased on data nom similar materials			
Other adverse effects Octamethylcyclotetrasiloxane: Results of PBT and vPvB assessment:	Remarks: Octamethylcyclotetrasiloxane (D4) meets the current REACh Annex XIII 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				
13.1 Waste Treatment Methods:	Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Australia, EU Member			
13.2 EU Waste Code:	Not determined			
SECTION 14 - TRANSPORTATION INFORMATIC)N			
<u>14.1 U.S. Department of Transportation (</u> <i>This product is classified (per 49 CFR 172.</i> UN Identification Number: Proper Shipping Name: Hazard Class Number and Description: Packing Group: DOT Label(s) Required: North American Emergency Response Guidebook Number: <u>14.2 Environmental Hazards:</u> Marine Pollutant:	 <u>'DOT) Shipping Regulations:</u> 101) by the U.S. Department of Transportation, as follows. Not Regulated None None None None The components of this product are designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B). 			



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14.3 Special Precaution for User:	None
14.4 International Air Transport Association	
Shipping Information (IATA):	This product is considered as dangerous goods.
14.5 International Maritime Organization	
Shipping Information (IMO):	
UN Identification Number:	Not regulated
Proper Shipping Name:	None
Hazard Class Number and Description:	None
Packing Group:	None
EMS-No:	None
EMS-No:	None

SECTION 15 – REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity				
Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)	
Methanol	67-56-1	5000	*	
Acetaldhyde	75-07-0	1000	*	
2-Butenal	4170-30-3	100	*	

*: Calculated RQ exceeds reasonably attainable upper limit

SARA 304 Extremely Hazardous Substances Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
2-Butenal	4170-30-3	100	*
Vinyl acetate	108-05-4	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit

SARA 311/312 Hazards : Ac	ute Health Hazard				
Ch	ronic Health Hazard				
SARA 302 : No	chemicals in this mater	ial are subject to the reporting requirements			
of	SARA Title III, Section 3	302.			
SARA 313 : Th	This material does not contain any chemical components with known				
CA	the threshold (De Minimis)				
Pennsylvania Right To Know					
Dimethyl, methoxyphenyl siloxane with	68957-04-0	30 - 50 %			
phenyl silsesquioxane methoxy-termina	ted				
Water	7732-18-5	30 - 50 %			
Triethoxyoctylsilane	2943-75-1	10 - 20 %			
Dimethyl siloxane, hydroxy-terminated	70131-67-8	10 - 20 %			
Methanol	67-56-1	0.1 - 1 %			
Acetaldehyde	75-07-0	0 - 0.1 %			
New Jersey Right To Know					
Dimethyl, methoxyphenyl siloxane with	68957-04-0	30 - 50 %			
phenyl silsesquioxane methoxy-termina	ted				
Water	7732-18-5	30 - 50 %			



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Triethoxyoctylsilane		2943-75-1	10 - 20 %		
Dimethyl siloxane, hydroxy-terminated		70131-67-8	10 - 20 %		
Dimethyl siloxane with aminoethylaminopr		ro- 68554-54-1	1 - 5 %		
pyl silsesquioxane, hydroxy-t	erm				
Methanol		67-56-1	0.1 - 1 %		
California Prop 65	WAR	NING! This product of	contains a chemical kno	wn in the State of	
	Califo	ornia to cause cance	r.		
Acetaldehyde		75-07-0			
	WAR	WARNING: This product contains a chemical known in the State of			
	Califo	ornia to cause birth d	efects or other reproduc	tive harm.	
Methanol		67-56-1			
AICS : IECSC : KECI : PICCS : DSL :	All in All in All in All in All in This Cana Cana Corn	gredients listed or ex gredients listed or ex gredients listed or ex gredients listed or ex product contains one idian Domestic Subs ida has volume limita ing Regulatory Comp	empt. empt. npt or notified. empt. or more substances wh tances List (DSL). Impoi tions. For volume limits bliance.	ich are not on the t of this product into please consult Dow	
REACH :	Cons	Consult your local Dow Corning office.			
TSCA :	All ch from	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.			
ENCS/ISHL :	All co listing	All components are listed on ENCS/ISHL or exempted from inventory listing.			

ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16 – OTHER INFORMATION

Date of Printing: July 1, 2018

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. SpecChem assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, SpecChem assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.



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END OF SDS SHEET