

OCTAKIS(TETRAMETHYLAMMONIUM)-T8-SILSESQUIOXANE,

hydrate Safety Data Sheet SIO6696.9 Date of issue: 03/06/2015 Version: Version: 1.0

SECTION 1: Identification of the substance	/mixture and of the company/undertaki	ng
1.1. Product identifier		
Product form : Subs	stance	
Physical state : Solid	l l	
Substance name OCT	AKIS(TETRAMETHYLAMMONIUM)-T8-SILSESQUI	DXANE, hydrate
Product code : SIO6	696.9	
Formula : C32H	H96N8O20Si8.XH2O	
Synonyms : OCT	AKIS(TETRAMETHYLAMMONIUM)OCTAPRISMOS	ILSESQUIOXANE
Chemical family : ORG	ANOSILANE	
1.2. Relevant identified uses of the substance or	mixture and uses advised against	
	nical intermediate esearch use only	
1.3. Details of the supplier of the safety data she	et	
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 info@gelest.com	OPM EST	
1.4. Emergency telephone number		
Emergency number : CHE	MTREC: 1-800-424-9300 (USA); +1 703-527-3887 (I	nternational)
SECTION 2: Hazards identification		
2.1. Classification of the substance or mixture		
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3.2. Mixture

Not applicable

SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general		g and shoes. In case of accident or if you feel ι now the label where possible). If possible show bel.	
First-aid measures after inhalation	: Remove victim to fresh air and unwell, seek medical advice.	keep at rest in a position comfortable for brea	thing. If you feel
First-aid measures after skin contact	: Wash with plenty of soap and	water.	
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First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Get medical advice/attention.
4.2. Most important symptoms and ef	fects, both acute and delayed
Symptoms/injuries after inhalation	: 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.
4.3. Indication of any immediate med	cal attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Water fog. Foam. Carbon dioxide. Dry chemical.
5.2. Special hazards arising from the	substance or mixture
Fire hazard	: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust.
SECTION 6: Accidental release me	easures
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. No	otify authorities if liquid enters sewers or public waters.
6.3. Methods and material for contain	ment and 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 person	nal protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe dust. Provide local exhaust or general room ventilation to minimize exposure to dust.
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, inclu	Iding any incompatibilities
Storage conditions	: Keep container tightly closed.
Incompatible materials	: Alkalis. Oxidizing agent.
Storage area	: Store in a well-ventilated place. Store away from heat.
7.3. Specific end use(s)	· ·
No additional information available	
SECTION 8: Exposure controls/pe	rsonal protection
8.1. Control parameters No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Provide local exhaust or general room ventilation.

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	vicinity of any potential exposure. Avoid all unnecessary 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	: NIOSH-certified dust and mist (orange cartridge) respirator.

9.1. Information on basic physical and o	chemical properties
Physical state	: Solid
Appearance	: Powder.
Molecular mass	: 1137.85 g/mol
Color	: White.
Odor	: No data available
Odor threshold	: No data available
Refractive index	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: <1
Melting point	: ≥ 143 °C decomposes
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 110 ℃
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Slightly. Soluble in water.
Log Pow	: No data available
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
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	

10.1. Reactivity No additional information available 10.2. **Chemical stability** Stable in sealed containers stored under a dry inert atmosphere. 10.3. Possibility of hazardous reactions The product can generate small amounts of trimethylamine when heated. 10.4. **Conditions to avoid** Heat. Open flame. Sparks. **Incompatible materials** 10.5. Alkalis. Oxidizing agent. Hazardous decomposition products 10.6.

Organic acid vapors. Silicon dioxide. Trimethylamine.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects	5
Acute toxicity	: 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
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 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.

SECTION 12: Ecological information

12.1.	Toxicity		
No additio	onal information available		
12.2.	Persistence and degradability		
No additio	onal information available		
12.3.	Bioaccumulative potential		
No additio	onal information available		
12.4.	Mobility in soil		
No additio	onal information available		
12.5.	Other adverse effects		
Effect on	ozone layer	: No addit	onal information available
Effect on	the global warming	: No know	n ecological damage caused by this product.
SECTIO	DN 13: Disposal consideration	S	
13.1.	Waste treatment methods		
Waste dis	sposal recommendations	: Incinerat	e. Dispose in a safe manner in accordance with local/national regulations.
Ecology -	waste materials	: Avoid rel	ease to the environment.
SECTIC	ON 14: Transport information		
14.1.	UN number		
Martine and	a facility of the second state		

Not regulated for transport.	
14.2. UN proper shipping name	
Not applicable	
14.3. Additional information	
Other information	: No supplementary information available.

Transport by sea

No additional information available

Air transport

No additional information available

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SECTION 15: Regulatory inform	nation
15.1. US Federal regulations	
OCTAKIS(TETRAMETHYLAMMONIU	M)-T8-SILSESQUIOXANE, hydrate (69667-29-4)
TSCA Exemption/Exclusion	CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States.
Octakis(tetramethylammonium)-t8-silsesquioxane, hydrate (69667-29-4)	
Not listed on the United States TSCA (Toxic Substances Control Act) inventory	
15.2. International regulations	

No additional information available

15.3. US State regulations

OCTAKIS(TETRAMETHYLAMMONIUM)-T8-SILSESQUIOXANE, hydrate(69667-29-4)				
U.S California - Proposition	,	No	, 	
U.S California - Proposition Toxicity	n 65 - Developmental	No		
U.S California - Proposition Toxicity - Female	65 - Reproductive	No		
U.S California - Proposition Toxicity - Male	65 - Reproductive	No		
Octakis(tetramethylammonium)-t8-silsesquioxane, hydrate (69667-29-4)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	No	No	No	

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.
HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 1 Slight Hazard
Physical	: 0 Minimal Hazard

Prepared by safety and environmental affairs.

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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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