

Safety Data Sheet SIT8598.0 Date of issue: 12/05/2016 Version: 1.0

SECTION 1: Identification	
1.1. Product identifier	
Product name	: TRIMETHYLSILYL PERRHENATE
Product code	: SIT8598.0
Product form	: Substance
Physical state	: Solid
Formula	: C3H9O4ReSi
Synonyms	: TRIOXA(TRIMETHYLSILYL)RHENIUM
Chemical family	: METAL COMPOUND
1.2. Recommended use of the chemical	and restrictions on use
Recommended use	: Chemical intermediate For research use only
1.3. Details of the supplier of the safety	data sheet
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 <u>info@gelest.com</u> - <u>www.gelest.com</u>	AM - 5:30 PM EST
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 n	
GHS-US classificationSerious eye damage/eye irritation Category 2AFull text of H statements : see section 162.2.Label elements	H319
GHS-US labeling	
Hazard pictograms (GHS-US)	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H319 - Causes serious eye irritation
Precautionary statements (GHS-US)	 P280 - Wear protective gloves/protective clothing/eye protection/face protection P264 - Wash hands thoroughly after handling P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337+P313 - If eye irritation persists: Get medical advice/attention
2.3. Hazards not otherwise classified (H	INOC)
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
No data available	
SECTION 3: Composition/Information	on on ingredients
3.1. Substances	
Substance type	: Mono-constituent

Substance type	: Mono	-constituent		
Name	: TRIM	ETHYLSILYL PERRHENATE		
CAS No	: 16687	7-12-0		
Name		Product identifier	%	GHS-US classification
Trimethylsilyl perrhenate		(CAS No) 16687-12-0	95 - 100	Eye Irrit. 2A, H319

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3.2. Mixtures	
Not applicable	
4.1. Description of first aid measures	S
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 no 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. Get medical advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, 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 e	effects, 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	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: No information available.
4.3. Indication of any immediate med	dical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	S
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Foam. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media	: Do not use straight streams.
5.2. Special hazards arising from the	e 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	: Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.
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 m	leasures
6.1. Personal precautions, protective	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Wear protective equipment as described in Section 8.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent entry to sewers and public waters. N	lotify authorities if product enters sewers or public waters.
6.3. Methods and material for contai	nment and cleaning up
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
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 perso	onal protection.
SECTION 7: Handling and storage	e
7.1. Precautions for safe handling	
7.1. Precautions for safe handling Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe dust. Avoid dust formation. Provide local exhaust or general room ventilation to minimize exposure to dust.

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Storage conditions	: Keep container tightly closed.		
Incompatible materials	: Oxidizing agent.		
Storage area	: Store in a well-ventilated place. Store away from heat.		
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.		
Personal protective equipment	: Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.		
Hand protection	: Neoprene or nitrile rubber gloves.		
Eye protection	: Chemical goggles. Contact lenses should not be worn.		
Skin and body protection	: Wear suitable protective clothing.		
Respiratory protection	 Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator. 		
SECTION 0: Physical and chomics			
SECTION 9: Physical and chemica 9.1. Information on basic physical an			
Physical state	: Solid		
Appearance	: Solid.		
Molecular mass	: 323.39 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)	: No data available		
Melting point	: 79 - 81 ℃		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: No data available		
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	: Reacts with 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		
Explosion limits	: No data available		
9.2. Other information			
No additional information available			
SECTION 10: Stability and reactivity	ity		
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			

Stable in sealed containers.

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Material decomposes slowly in contact with moist air and rapidly in contact with water liberating hexamethyldisiloxane. 10.4. Conditions to avoid Heat. Open flame, Sparks. Intervention of the start of	10.3. Possibility of hazardous reactions	
Heat. Open flame. Sparks. 10.5. Incompatible materials Oxidizing agent. 10.6. Hazardous decomposition products Organic acid vapors. Rhenium oxide. SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity : Not classified Serious eye dimage/irritation : Causes serious eye irritation. 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 Specific target organ toxicity – repeated symptoms : Not classified Potential Adverse human health effects and symptoms : Not classified Potential Adverse human health effects and symptoms/injuries after inhalation : May cause strainigen traitation. Symptoms/injuries after inhalation : May cause strainigen initiation. Symptoms/injuries after inhalation : May cause strainitiation. Symptoms/injuries after inhalation : May cause skin irritation. <td></td> <td>ist air and rapidly in contact with water liberating hexamethyldisiloxane.</td>		ist air and rapidly in contact with water liberating hexamethyldisiloxane.
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Symptoms/injuries after ingestion : No information available.	Symptoms/injuries after skin contact	: May cause skin irritation.
	Symptoms/injuries after eye contact	: Causes serious eye irritation.
Reason for classification : Expert judgment	Symptoms/injuries after ingestion	: No information available.
	Reason for classification	: Expert judgment

SECTION 12: Ecological information			
12.1.	Toxicity		
No addi	No additional information available		
12.2.	Persistence and degradability		
No addi	No additional information available		
12.3.	Bioaccumulative potential		
No addi	No additional information available		
12.4.	Mobility in soil		
No addi	tional information available		
12.5.	Other adverse effects		
Effect o	n ozone layer	: No additional information available	
Effect or	n the global warming	: No known effects from this product.	
GWPmi	x comment	: No known effects from this product.	

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Sewage disposal recommendations	: Do not dispose of waste into sewer.	
Waste disposal recommendations	: Incinerate. Dispose in a safe manner in accordance with local/national regulations.	
Ecology - waste materials	: Avoid release to the environment.	

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SECTION 14: Transport informatio	n
14.1. UN number	
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	
SECTION 15: Regulatory informati	on
15.1. US Federal regulations	
TRIMETHYLSILYL PERRHENATE (16687-	12-0)
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
Trimethylsilyl perrhenate (16687-12-0)	Substances Control Act in untern
Not listed on the United States TSCA (Toxic	Substances Control Act) inventory
15.2. International regulations	
CANADA No additional information available EU-Regulations No additional information available National regulations No additional information available	
15.3. US State regulations No additional information available	
SECTION 16: Other information	
Full text of H-phrases::	
H319	Causes serious eye irritation
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.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,
Physical	 solids and semi solids having a flash point above 200 F. (Class IIIB) 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Safety Data Sheet

Date of issue: 12/05/2016 Version: 1.0

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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