

12/07/2015

N-(TRIMETHOXYSILYLPROPYL)ISOTHIOURONIUM CHLORIDE, 50% in water

Safety Data Sheet SIT8405.0 Date of issue: 12/07/2015 Version: 1.0

SECTION 1: Identification of the s	ubstance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Mixture		
Physical state	: Liquid		
Product name	: N-(TRIMETHOXYSILYLPROPYL)ISOTHIOURONIUM CHLORIDE, 50% in water		
Product name Product code			
Formula	: SIT8405.0 : C7H19CIN2O3SSi		
Synonyms	: TRIHYDROXYPROPYLCARBAMIDOTHIOIC ACID, HYDROCHLORIDE; 2-[3- (TRIHYDROXYSILYL)PROPYL]ISOTHIOURONIUM CHLORIDE		
Chemical family	: SILICATE SOLUTION		
1.2. Relevant identified uses of the su	ubstance or mixture and uses advised against		
Use of the substance/mixture	: Chemical intermediate For research use only		
1.3. Details of the supplier of the safe	ety data sheet		
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:0 info@gelest.com - www.gelest.com	00 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: Hazards identification 2.1. Classification of the substance of			
GHS-US classification			
Skin Irrit. 2 H315 Eye Irrit. 2A H319 Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: GHS07		
Signal word (GHS-US)			
J	: Warning		
Hazard statements (GHS-US)	: Warning : H315 - Causes skin irritation H319 - Causes serious eye irritation		
o ()	: H315 - Causes skin irritation		
Hazard statements (GHS-US)	 H315 - Causes skin irritation H319 - Causes serious eye irritation P280 - Wear protective gloves/protective clothing/eye protection/face protection P264 - Wash hands thoroughly after handling P302+P352 - If on skin: Wash with plenty of soap and water P332+P313 - If skin irritation occurs: Get medical advice/attention 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 P321 - Specific treatment (see first aid instructions on this label) 		
Hazard statements (GHS-US) Precautionary statements (GHS-US)	 H315 - Causes skin irritation H319 - Causes serious eye irritation P280 - Wear protective gloves/protective clothing/eye protection/face protection P264 - Wash hands thoroughly after handling P302+P352 - If on skin: Wash with plenty of soap and water P332+P313 - If skin irritation occurs: Get medical advice/attention 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 P321 - Specific treatment (see first aid instructions on this label) 		
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Hazard statements (GHS-US) Precautionary statements (GHS-US) 2.3. Other hazards No additional information available 2.4. Unknown acute toxicity (GHS US	 H315 - Causes skin irritation H319 - Causes serious eye irritation P280 - Wear protective gloves/protective clothing/eye protection/face protection P264 - Wash hands thoroughly after handling P302+P352 - If on skin: Wash with plenty of soap and water P332+P313 - If skin irritation occurs: Get medical advice/attention 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 P305+P351 - Specific treatment (see first aid instructions on this label) P362+P364 - Take off contaminated clothing and wash it before reuse 		
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EN (English US)

SDS ID: SIT8405.0

Page 1

Name		Product identifier	%	GHS-US classification
Water		(CAS No) 7732-18-5	76 > 50	Not classified
2-[3-(Trihydroxysilyl)propyl]isothiouronium chlorid	de	(CAS No) 84682-36-0	< 50	Skin Irrit. 2, H315
				Eye Irrit. 2A, H319
SECTION 4: First aid measures				
4.1. Description of first aid measure	s			
First-aid measures general	: Rem	ove contaminated clothing and shoe	es. In case of accide	nt or if you feel unwell, seek
		cal advice immediately (show the la	bel where possible)	. If possible show this sheet; if
First-aid measures after inhalation		able show packaging or label. ove victim to fresh air and keep at re	ast in a position com	fortable for broathing. If you fo
		II, seek medical advice.	est in a position con	ilonable for breathing. If you le
First-aid measures after skin contact	: Was	with plenty of soap and water. Get	medical advice/atte	ention.
First-aid measures after eye contact	: Imme	ediately flush eyes thoroughly with w	vater for at least 15	minutes. Remove contact lense
	prese	ent and easy to do. Continue rinsing	. Get medical advice	e/attention.
First-aid measures after ingestion	: Neve	r give anything by mouth to an unco	onscious person. Ge	et medical advice/attention.
4.2. Most important symptoms and e	effects, both	acute and delayed		
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 me	dical attentio	n and special treatment needed		
No additional information available				
SECTION 5: Firefighting measure	S			
5.1. Extinguishing media				
Suitable extinguishing media	: Not o	ombustible.		
Unsuitable extinguishing media	: None	known.		
5.2. Special hazards arising from the	e substance	or mixture		
Fire hazard		known.		
Explosion hazard	: None	known.		
5.3. Advice for firefighters				
Firefighting instructions	· Exer	cise caution when fighting any chem	nical fire	
Protection during firefighting		ot enter fire area without proper prot		ocluding respiratory protection.
		all eye and skin contact and do no		0 1 71
SECTION 6: Accidental release m	neasures			
6.1. Personal precautions, protective	e equipment	and emergency procedures		
6.1.1. For non-emergency personnel				
Protective equipment	: Wea	protective equipment as described	in Section 8.	
Emergency procedures	: Evac	uate unnecessary personnel.		
6.1.2. For emergency responders				
Protective equipment	· Do n	ot attempt to take action without suit	table protective equ	inment Equip cleanup crew wit
		er protection. For further information		
	prote	ction".		
6.2. Environmental precautions				
Prevent entry to sewers and public waters. N	Notify authorit	ies if liquid enters sewers or public v	waters.	
6.3. Methods and material for contai	nment and o	leaning up		
For containment		ain any spills with dikes or absorber	nts to prevent migrat	tion and entry into sewers or
	strea			,
Methods for cleaning up		n up any spills as soon as possible,		material to collect it. Sweep or
	shov	el spills into appropriate container fo	or disposal.	
6.4. Reference to other sections				
No additional information available				

SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: Avoid all eye and skin contact and do not breathe vapor and mist. Use only in well ventilate areas.		
jiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas wit soap and water before eating, drinking or smoking and when leaving work.			
7.2. Conditions for safe storage, inclu	ding any incompatibilities		
Storage conditions	: Keep container tightly closed.		
ncompatible materials	: None known.		
Storage area	: Store in a well-ventilated place.		
7.3. Specific end use(s)			
No additional information available			
SECTION 8: Exposure controls/pe	rsonal protection		
3.1. Control parameters			
No additional information available			
3.2. Exposure controls	· Drovide legal exhaust or general room ventilation		
Appropriate engineering controls	: Provide local exhaust or general room ventilation.		
Personal protective equipment	: 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 or face shield. 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 (teal cartridge) respirator.		
SECTION 9: Physical and chemica	l properties		
9.1. Information on basic physical and			
Physical state	: Liquid		
Appearance	: Clear solution.		
Molecular mass	: 274.84 g/mol		
Color	: No data available		
Ddor	: No data available		
Ddor threshold	: No data available		
Refractive index	: 1.441		
bH	: 6		
Relative evaporation rate (butyl acetate=1)	: No data available		
Velting point	$: < 0 ^{\circ}\text{C}$		
Freezing point	: No data available		
Boiling point	: 100 °C - initial (water)		
Flash point	: none		
•	. No data available		
Auto-ignition temperature			
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
/apor pressure	: < 1 mm Hg @ 20°C		
Relative vapor density at 20 °C	: No data available		
Relative density	: 1.19		
Solubility	: Soluble in water.		
_og Pow	: No data available		
- 5	: No data available		
Log Kow Viscosity, kinematic	: No data available		
Log Kow	No data available No data available		
Log Kow /iscosity, kinematic			
Log Kow /iscosity, kinematic /iscosity, dynamic	: 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.	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
None known.	
10.5. Incompatible materials	
None known.	
10.6. Hazardous decomposition products	
Carbon dioxide. Hydrogen chloride. Silicon dioxid	
SECTION 11: Toxicological informat	
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
-	
Water (7732-18-5)	
Skin corrosion/irritation	> 90 ml/kg : Causes skin irritation.
Skin conosion/initiation	pH: 6
Serious eye damage/irritation	: Causes serious eye irritation.
	pH: 6
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 skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
Reason for classification	: Expert judgment
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Effect on ozone layer	: No additional information available
Effect on the global warming	: No known ecological damage caused by this product.

Water (7732-18-5) U.S California - U.S California - U.S California -	SECTION 13: Disposa	l considerations				
Savage disposal recommendations : Do not dispose of waste into saver. Waste disposal recommendations : Londill. Dispose in a safe manner in accordance with local/national regulations. Ecology waste material : Avoid telease to the environment. SECTION 14: Transport information T4.1. UN number Not regulated for transport. 14.2. UN proper shipping name Not applicable 14.3. Additional information Chronomation : No supplementary information available. Transport by sea No additional information available Art transport Not additional information available SECTION 15: Regulatory information SECTION 15: Regulatory information S						
Wate disposal recommendations : Andril Dispose in a safe manner in accordance with local/hational regulations. Ecology - waste materials : Avoid release to the environment. SECTION 14: Transport information			not	dispose of waste into sewer		
Ecology waste materials : Avoid release to the environment. SECTION 14: Transport Information 14.1. UN number Not regulated for transport. 14.2. UN proper shipping name Not applicable 14.3. Additional information Other information Other information Other information Charlen Information	e 1					egulations
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141. UN number Not regulated for transport. 142. UN propri shipping name Not applicable 143. Additional information Other information ICIA: Section information No additional information available Air transport No additional information available SECTION 15: Regulatory information SECTION 15: Regulatory information TSCA Exemption/Exclusion MARTIMETENDEXVISIV/EROPYLISOTHIOURONUM CHLORIDE, 50% in water TSCA Exemption/Exclusion RAUTION: This material is supplied for research and development upposes subject to the Resemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(c). The used of this material for commercial purposes" as defined by 40 CFR 720.3(c). The used of this material for commercial purposes" as defined by 40 CFR 720.3(c). The used of this material for commercial purposes" as defined by 40 CFR 720.3(c). The used of this material for commercial purposes" as defined by 40 CFR 720.3(c). The used of this material for commercial purposes" as defined by 40 CFR 720.3(c). The used of this material for commercial purposes" as defined by 40 CFR 720.3(c). This material purposes" as defined by 40 CFR 720.3(c). The used of this material for commercial purposes" as defined by 40 CFR 720.3(c). The used of this material for commercial purposes" as defined by 40 CFR 720.3(c). The used of this material for commercial purposes" as defined by 40 CFR 720.3(c). The used of the used for the commercial purposes the commercial purposes. Subject not the Re		rt information				
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14.2. UN proper shipping name Not applicable 41.3. Additional information Other information : No supplementary information available. Transport by sea No additional information available SECTION 15: Regulatory information SECTION 15: Regulatory information Status SECTION 15: Regulatory information SECTION 15: Regulatory information CAUTION: This material is supplied for research and development purposes subject to the RAD seamption under TSCA, 40 CFR 720.36, and must meet the requirements of the seamption.including supervision by a Technically qualified individual as defined by 40 CFR 720.3(r); is not permitted in the United States Water (772-18-5) Listed on the United States TSCA (Toxic Substances Control Act) inventory 2:1/rhydroxysily/propyljsothiouronium chloride (94682-36-0) Not listed on the United States TSCA (Toxic Substances Control Act) inventory 2:2. International regulations Water (7732-18-5) Listed on the United States TSCA (Toxic Substances Control Act) inventory 2:1. International regulations Water (7732-18-5) Listed on the United States TSCA (Toxic Substances Control Act) inventory 2:1. International regulations Water (7732-18-5) Listed on the CSC (I						
Not applicable 14.3. Additional information 14.3. Additional information 15.3. Additional information 15.4.3. Additional information 15.4.3. Additional information available Transport No additional information available SECTION 15. Regulatory information 15.1. USF deforal regulations MITEMETHOXYSIL/UPROPYL/SOTHOURONUM CHLORIDE, 50% in water TSCA Exemption/Exclusion CALTION: Time material is supplied for research and development purposes subject to the R2D 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(n). The second in the United States TSCA (Toxic Substances Control Act) inventory 247(Trihydroxysilyl/propyl)giosthiouronium chloride (84682-36-0) Not listed on the United States TSCA (Toxic Substances Control Act) inventory 247(Trihydroxysilyl/propyl)giosthiouronium chloride (84682-36-0) Not listed on the United States TSCA (Toxic Substances Control Act) inventory 15.2. International regulations Water (7732-16-5) Listed on the United States TSCA (Toxic Substances) Listed		ng name				
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Ar transport No additional information available SECTION 15: Regulatory information 15.1. US Federal regulations MCRIMETHOXYSIL/LPROPYLJSOTHIOURONIUM CHLORIDE, 50% in water TSCA Exemption/Exclusion CAUTION: This material is supplied for research and development purposes subject to the R3D 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(e), is not permitted in the United States. TSCA (Toxic Substainces Control Act) inventory 2:3-(Trihydroxysilyl)propyl]isothiouronium chloride (84682-36-0) Not listed on the United States TSCA (Toxic Substainces Control Act) inventory 2:3-(Trihydroxysilyl)propyl]isothiouronium chloride (84682-36-0) Not listed on the United States TSCA (Toxic Substainces Control Act) inventory 5:2. International regulations Water (7732-18-5) Listed on the United States TSCA (Toxic Substainces Control Act) inventory 5:2. International regulations Water (C732-18-5) Listed on the Conted States TSCA (Toxic Substainces Control Act) inventory 1:3: do on the CSC (Inventory of Chemical Substainces) Listed on the Conted States TSCA (Toxic Substainces List) Listed on the Conted States TSCA (Toxic Substainces Produced or Imported in China) Listed on the Conted Inventory of Chemical Substainces) Listed on the Contex Contex Inventory of Chemical Substainces) Listed on the Contex Contex Inventory of Chemical Substainces) Listed on the Contex (PLINECS (European Inventory of Existing Commercial Chemical Substainces) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substainces) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substainces) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substainces) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substainces) Listed on the EEC inventory EINECS (European Invent		labla				
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U.S California - Proposition 65 - Reproductive No Toxicity - Female No U.S California - Proposition 65 - Reproductive No Toxicity - Male No Water (7732-18-5) U.S California - U.S California - Non-significant risk level						
Toxicity - Female U.S California - Proposition 65 - Reproductive No Toxicity - Male No Water (7732-18-5) U.S California - U.S California - Non-significant risk level	Toxicity					
Toxicity - Male Water (7732-18-5) U.S California - U.S California - Non-significant risk level						
U.S California - U.S California - U.S California - U.S California - Non-significant risk level	U.S California - Proposition Toxicity - Male	1 65 - Reproductive	N	0		
U.S California - U.S California - U.S California - U.S California - Non-significant risk level	Water (7732-18-5)		_			
Uroposition Fr. L. Uroposition FF. L. Uroposition FF. L. Discretificat CF. L. MODIA	U.S California -					
	Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity				(NSRL)

Safety Data Sheet

Water (7732-18-5)				
No	No	No	No	
2-[3-(Trihydroxysilyl)propyl]isothiouronium chloride (84682-36-0)				
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	Non-significant risk level (NSRL)
No	No	No	No	

SECTION 16: Other i			
Abbreviations and acronym	Concentra millimeter threshold Health; IA Program; Registratio	ation; ATE: Aci s Hg, torr; PEL limit value; TG RC: Internatio HMIS: Hazard on Number; EG Commission I	Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal ute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: .: permissible exposure level; TWA: time weighted average; TLV: :: Test Guideline; NIOSH: National Institute for Occupational Safety and nal Agency for Research on Cancer; NTP: National Toxicology ous Material Information System; CAS No.: Chemcial Abstract Service C No.: European Commission Registration Number; EC Index No.: ndex Number; OECD: The Organisation for Economic Co-operation
Full text of H-phrases::			
Eye Irrit. 2A			Serious eye damage/eye irritation Category 2A
Skin Irrit. 2			Skin corrosion/irritation Category 2
H315			Causes skin irritation
H319			Causes serious eye irritation
HMIS III Rating Health Flammability Physical	: 2 Moderat : 0 Minimal : 0 Minimal	Hazard	mporary or minor injury may occur
Prepared by safety and env	vironmental affairs.		
Date of issue: 12/07/2015	Version: 1.0		
SDS US (GHS HazCom 2012)	- Custom		
	Vol. 77, No. 58 / Monday, March 26, 20		

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