

Safety Data Sheet SIN6597.0 Date of issue: 01/07/2015 Revision date: 02/07/2017

Version: 2.0

SECTION 1: Identification				
1.1. Product identifier				
Product name	: 1-NA	PHTHYLTRIMETHOXYSILANE		
Product code	: SIN6	597.0		
Product form	: Subst	ance		
Physical state	: Liquio	1		
Formula	: C13H	16O3Si		
Synonyms	: TRIM	ETHOXYSILYLNAPTHALENE		
Chemical family	: ORG	ANOMETHOXYSILANE		
1.2. Recommended use of the chemical	and rest	ictions on use		
Recommended use	: Cherr	nical intermediate		
	For re	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 / info@gelest.com - www.gelest.com	AM - 5:30	PMEST		
1.4. Emergency telephone number				
Emergency number	: CHEN	/TREC: 1-800-424-9300 (USA); +1 703-	-527-3887 (Inter	national)
SECTION 2: Hazard(s) identification				
2.1. Classification of the substance or m	ixture			
GHS-US classification	11040			
Serious eye damage/eye irritation Category 2A	H319			
Full text of H statements : see section 16				
2.2. Label elements				
GHS-US labeling				
Hazard pictograms (GHS-US)	:			
	(	GHS07		
Signal word (GHS-US)	: Warn	ing		
Hazard statements (GHS-US)	: H319	- Causes serious eye irritation		
Precautionary statements (GHS-US)		- Wear protective gloves/protective cloth		on/face protection
- · · ·	P264	- Wash hands thoroughly after handling		
		+P351+P338 - IF IN EYES: Rinse cautio ct lenses, if present and easy to do. Con		tor several minutes. Remove
		+P313 - If eye irritation persists: Get med		ntion
2.3. Hazards not otherwise classified (H				
No additional information available	,			
2.4. Unknown acute toxicity (GHS US)				
No data available				
SECTION 3: Composition/Informatio	n on in	aredients		
3.1. Substances				
Substance type	· Mono	-constituent		
Name		PHTHYLTRIMETHOXYSILANE		
CAS No	: 1-NA			
	. 1005/		0/	
Name		Product identifier	<b>%</b>	GHS-US classification
1-Naphthyltrimethoxysilane		(CAS No) 18052-76-1	95 - 100	Eye Irrit. 2A, H319

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Full tex	t of hazard classes and H-statements	: see	section 16
3.2.	Mixtures		
Not ap	plicable		
4.1.	Description of first aid measures	;	
First-ai	d 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 not available show packaging or label.
First-ai	d 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-ai	d measures after skin contact	:	Wash with plenty of soap and water. Get medical advice/attention.
First-ai	d 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-ai	d measures after ingestion	:	Never give anything by mouth to an unconscious person. Get medical advice/attention.
4.2.	Most important symptoms and e	ffects	, both acute and delayed
Sympto	oms/injuries after inhalation	:	May cause irritation to the respiratory tract.
Sympto	oms/injuries after skin contact	:	May cause skin irritation.
Sympto	oms/injuries after eye contact	:	Causes serious eye irritation.
Sympto	oms/injuries after ingestion	:	Oral toxicity is associated with methanol, the solvent and a hydrolysis product which causes nausea, vomiting, headache, visual effects including blindness.
Chronic	c symptoms	:	On contact with water this compound liberates methanol which is known to have a chronic effect on the central nervous system. Methanol may effect the central nervous system resulting in persistent or recurring headaches or impaired vision.

#### 4.3. Indication of any immediate medical attention and special treatment needed

NOTE TO PHYSICIAN: This product reacts with water in the acid contents of the stomach to form methanol. The combination of visual disturbances, metabolic acidosis and formic acid in urine is evidence of methanol poisoning. The therapeutic intravenous administration of ethanol (10 mls/hour) allows methanol to be preferentially oxidized and reduces production of methanol metabolites. Acidosis must be treated with intravenous administration of sodium bicarbonate and methanol elimination may be increased by hemodialysis, as indicated. Treatment should be based on blood methanol levels and acid-base balance.

SECTION 5: Firefighting measures	
OLOTION 5. Threnghting measures	
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 su	ibstance 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	<ul> <li>Do not enter fire area without proper protective equipment, including respiratory protection.</li> <li>Avoid all eye and skin contact and do not breathe vapor and mist.</li> </ul>

SECTION 6: Accidental release measures				
6.1.	Personal precautions, protective equ	ipment and emergency procedures		
6.1.1.	For non-emergency personnel			
Protective	equipment	: Wear protective equipment as described in Section 8.		
Emergen	cy 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. Notify authorities if liquid enters sewers or public waters.				
6.3.	Methods and material for containment	nt and cleaning up		
For conta	inment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.		
Methods	for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it.		
6.4.	Reference to other sections			
See Heading 8. Exposure controls and personal protection.				

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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. Provide good ventilation in
	<ul> <li>From a start optimized and do not broatly tapped and much root and good volumentary process area to prevent accumulation of vapors.</li> <li>Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild</li> </ul>
Hygiene measures	soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, inclue	ding any incompatibilities
Storage conditions	: Keep container tightly closed.
Incompatible materials	: Moisture. Water.
Storage area	: Store in a well-ventilated place. Store away from heat.
SECTION 8: Exposure controls/per	sonal 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 l 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	: NIOSH-certified organic vapor (black cartridge) respirator. Where exposure through inhalatior
	may occur from use, respiratory protection equipment is recommended.
SECTION 9: Physical and chemica	I properties
9.1. Information on basic physical and	I chemical properties
Physical state	: Liquid
Appearance	: Clear liquid.
Molecular mass	: <mark>248.3</mark> 5 g/mol
Color	: Straw.
Odor	: Mild.
Odor threshold	: No data available
Refractive index	: 1.5562
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: < 33 - 35 °C
Boiling point	: 150 °C @ 2 mm Hg
Flash point	: > 110 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: < 0.1 mm Hg @ 25°C
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Insoluble in water. Reacts with water.
Log Pow	: No data available
	: No data available
Log Kow	
	: No data available
Viscosity, kinematic	: No data available : No data available
Log Kow Viscosity, kinematic Viscosity, dynamic Explosive properties	
Viscosity, kinematic Viscosity, dynamic	: No data available

No additional information available

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SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable in sealed containers.	
10.3. Possibility of hazardous reactions	
Reacts with water and moisture in air, liberating	methanol.
10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
10.5. Incompatible materials	
Moisture. Water.	
10.6. Hazardous decomposition products	
Methanol. Organic acid vapors.	
SECTION 11: Toxicological informat	
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation. : Not classified
Respiratory or skin sensitization Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
outomogomoky	None of the components in this product at concentrations >0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen
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	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Oral toxicity is associated with methanol, the solvent and a hydrolysis product which causes nausea, vomiting, headache, visual effects including blindness.
Chronic symptoms	: On contact with water this compound liberates methanol which is known to have a chronic effect on the central nervous system. Methanol may effect the central nervous system resulting in persistent or recurring headaches or impaired vision.
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	
Other adverse effects	: This substance may be hazardous to the environment.

Other adverse effects Effect on ozone layer	<ul><li>This substance may be hazardous to the environment.</li><li>No additional information available</li></ul>
Effect on the global warming GWPmix comment	<ul><li>No known effects from this product.</li><li>No known effects from this product.</li></ul>

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<b>SECTION 13: Disposal consideration</b>	S
13.1. Waste treatment methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: May be incinerated. Dispose in a safe manner in accordance with local/national regulations.
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	: No supplementary information available.
Transport by coo	
Transport by sea No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory information	
15.1. US Federal regulations	
1-NAPHTHYLTRIMETHOXYSILANE (18052-7	
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
1-Naphthyltrimethoxysilane (18052-76-1)	
Not listed on the United States TSCA (Toxic Su	ostances Control Act) inventory
15.2. International regulations	
CANADA No additional information available	
EU-Regulations No additional information available	
National regulations	
1-Naphthyltrimethoxysilane (18052-76-1)	
Listed on the Japanese ISHL (Industrial Safety	and Health Law)
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.

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HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	<ul> <li>1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)</li> </ul>
Physical	: 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.

#### 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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