

3-{[DIMETHYL(3-TRIMETHOXYSILYL)PROPYL]AMMONIO}PROPANE-1-SULFONATE, tech 95 Safety Data Sheet SID4241.0

Safety Data Sheet SID4241.0 Date of issue: 09/03/2015 Version: 1.0

SECTION 1: Identification of the	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Physical state	: Solid
Substance name	: 3-{[DIMETHYL(3-TRIMETHOXYSILYL)PROPYL]AMMONIO}PROPANE-1-SULFONATE, tech 95
Product code	: SID4241.0
Formula	: C11H27NO6SSi
Chemical family	: ORGANOMETHOXYSILANE
1.2. Relevant identified uses of the	substance 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 sa	fety data sheet
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): & info@gelest.com - www.gelest.com	3:00 AM - 5:30 PM EST
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
CECTION 2: Honordo identificatio	
SECTION 2: Hazards identificatio	
	or mixture
Classification (GHS-US)	
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)	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin irritation 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 P302+P352 - If on skin: Wash with plenty of 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 P302 - Specific treatment (see first aid instructions on this label) P362+P364 - Take off contaminated clothing and wash it before reuse
2.3. Other hazards	
Other hazards not contributing to the classification	: Additional methanol may be formed by reaction with moisture and water. The US OSHA PEL (TWA) for methanol is 200 ppm.
2.4. Unknown acute toxicity (GHS U	IS)
No data available	

No data available

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SECTION 3: Composition/information on in	gredients		
3.1. Substance			
Substance type : Mono	p-constituent		
Name : 3-{[D 95	IMETHYL(3-TRIMETHOXYSILYL)PROP	YL]AMMONIO}	PROPANE-1-SULFONATE, tech
CAS No : 1517	78-80-2		
Name	Product identifier	%	Classification (GHS-US)
3-{[Dimethyl(3-trimethoxysilyl)propyl]ammonio}propane-1- sulfonate	(CAS No) 151778-80-2	95 - 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

3.2. Mixture

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	i de la constante d
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. IF exposed or concerned: Get medical advice/attention.
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	ffects, both acute and delayed
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
Chronic symptoms	: On contact with water this compound liberates methanol which is known to have a chronic effect on the central nervous system.

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	
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 sul	bstance or mixture
Fire hazard	: Irritating fumes and organic acid vapors may develop when material is exposed to water or open flame.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray to cool exposed surfaces. 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.

SECTIO	ON 6: Accidental release meas	sures	
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
Protective	e 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".	

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6.2. Environmental precautions	
	tify authorities if product enters sewers or public waters.
· ·	
6.3. Methods and material for contain For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or
or containment	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 persor	al 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. Avoid dust formation. 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	ding any incompatibilities
Storage conditions	: Keep container tightly closed.
Incompatible materials	: Moisture. Oxidizing agent. Water.
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.
Personal protective equipment	: Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should lavailable 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 combination organic vapor - amine gas (brown cartridge) respirator.
SECTION 9: Physical and chemica	I properties
9.1. Information on basic physical and	
Physical state	: Solid
Appearance	: Crystalline solid. Hygroscopic.
Molecular mass	: 329.5 g/mol
Color	: White.
Odor	: No data available
Odor threshold	: No data available
Refractive index	: No data available
pH Relative eveneration rate (butul acetate=1)	: No data available
Relative evaporation rate (butyl acetate=1) Melting point	: No data available : 125 - 128 °C
Freezing point	: No data available
Boiling point	: No data available
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

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Relative density	: >1		
VOC content	: 100 %		
Solubility	: 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		
Explosion 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 ir	nert atmosphere.		
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. Oxidizing agent. Water.			
10.6. Hazardous decomposition products	5		
Methanol. Organic amine vapors.			
SECTION 11: Toxicological informat	tion		
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/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		
Aspiration hazard	: Not classified		
Potential Adverse human health effects and	: This material liberates small amounts of methanol on contact with moisture. Material generates		
symptoms	methanol on contact with water or moisture in skin, eyes and mucous membranes and has an irritating, dehydrating effect on overexposed tissue.		
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract.		
Symptoms/injuries after skin contact	: Causes skin irritation.		
Symptoms/injuries after eye contact	: Causes serious eye irritation.		
Symptoms/injuries after ingestion	: May be harmful if swallowed.		
Chronic symptoms	: On contact with water this compound liberates methanol which is known to have a chronic effect on the central nervous system.		
Reason for classification	: Expert judgment		

SECTION 12: Ecological information

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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.
Effect on ozone layer	: No additional information available
Effect on the global warming	: No known ecological damage caused by this product.
SECTION 13: Disposal considerat	ions
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	bn
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 informat	ion
15.1. US Federal regulations	
	OPYLJAMMONIO}PROPANE-1-SULFONATE, tech 95 (151778-80-2)
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.
3-{[Dimethyl(3-trimethoxysilyl)propyl]am	
Not listed on the United States TSCA (Toxic	
15.2. International regulations	
No additional information available	

No additional information available

15.3. US State regulations

3-{[DIMETHYL(3-TRIMETHO	OXYSILYL)PROPYL]AMMO	DNIO PROPANE-1-SULFONAT	E, tech 95 (151778-80-2)	
U.S California - Proposition 65 - Carcinogens List		No		
U.S California - Proposition 65 - Developmental Toxicity		No		
U.S California - Proposition 65 - Reproductive Toxicity - Female		No		
U.S California - Proposition 65 - Reproductive Toxicity - Male		No		
3-{[Dimethyl(3-trimethoxysilyl)propyl]ammonio}propane-1-sulfonate (151778-80-2)				
U.S California - Proposition 65 - Carcinogens ListU.S California - Proposition 65 - Developmental Toxicity		U.S California - Proposition 65 - Reproductive Toxicity -	U.S California - Proposition 65 - Reproductive Toxicity -	No significance risk level (NSRL)

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3-{[Dimethyl(3-trimethoxysilyl)propyl]ammonio}propane-1-sulfonate (151778-80-2)				
		Female	Male	
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.

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	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 2 Moderate Hazard
Physical	: 1 Slight Hazard
Prepared by safety and environmental affairs.	
Date of issue: 09/03/2015 Version: 1.0	
SDS US (GHS HazCom 2012) - Custom	
According to Federal Register / Vol. 77, No. 58 / Monday	r, March 26, 2012 / Rules and Regulations

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