

Safety Data Sheet GES6940 Date of issue: 09/16/2015 Version

Version: 1.0

SECTION 1: Identification of the subs	tance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Physical state	: Solid
Substance name	: SODIUM METAGERMANATE, hydrate, 95%
Product code	: GES6940
Formula	: GeNa2O3
Synonyms	: DISODIUM TRIOXAGERMANATE; GERMANIUM DISODIUM TRIOXIDE
Chemical family	INORGANIC GERMANATE
1.2. Relevant identified uses of the substa	ance or mixture and uses advised against
Use of the substance/mixture	: Chemical intermediate For research and industrial use only
1.3. Details of the supplier of the safety d	ata sheet
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA	
T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 A info@gelest.com - www.gelest.com	M - 5:30 PM EST
1.4. Emergency telephone number	CUENTREC: 1 900 424 0200 (USA): +1 702 527 2997 (International)
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)
SECTION 2: Hazards identification	
2.1. Classification of the substance or mi	xture
Classification (GHS-US)	
Skin Irrit. 2 H315 Eye Irrit. 2A H319 STOT SE 3 H335 Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	CHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	 P280 - Wear protective gloves/protective clothing/eye protection/face protection P261 - Avoid breathing dust P264 - Wash hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P302+P352 - If on skin: Wash with plenty of soap and water P332+P313 - If skin irritation occurs: Get medical advice/attention P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing 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 P312 - Call a doctor if you feel unwell P321 - Specific treatment (see first aid instructions on this label) P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to licensed waste disposal facility.

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2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
No data available				
SECTION 3: Composition/informat	ion on ingredients			
3.1. Substance				
Substance type	: Mono-constituent			
Name	: SODIUM METAGERMANATE, hydrate, 95%			
CAS No	: 12025-19-3			
EC no	: 234-703-0			
		% Classification (GHS-US)		
Name Sodium metagermanate, hydrate		Classification (GHS-US) 95 - Skin Irrit. 2, H315		
ooulum metagemanate, nyulate	()	00 Eye Irrit. 2A, H319 STOT SE 3, H335		
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
I.1. Description of first aid measures	- N			
First-aid measures general	medical advice immediately (show the label where pos	: 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. IF exposed or concerned: Get medical advice/attention.		
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a positio unwell, seek medical advice.	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.		
irst-aid measures after skin contact	: Wash with plenty of soap and water. Get medical advice	ce/attention.		
irst-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 perso	on. Get medical advice/attention.		
.2. Most important symptoms and eff	ects, both acute and delayed			
Symptoms/injuries after inhalation	: May cause respiratory irritation.			
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.			
I.3. Indication of any immediate medi	cal attention and special treatment needed			
No additional information available				
SECTION 5: Firefighting measures				
.1. Extinguishing media				
Suitable extinguishing media	: Not combustible.			
Jnsuitable extinguishing media	: None known.			
5.2. Special hazards arising from the s	substance or mixture			
Fire hazard	: None known.			
5.3. Advice for firefighters				
Protection during firefighting	: Do not attempt to take action without suitable protective eyes. Do not breathe dust.	e equipment. Avoid contact with skin a		
	asures			
	equipment and emergency procedures			
6.1. Personal precautions, protective of	equipment and emergency procedures			
6.1.Personal precautions, protective of6.1.1.For non-emergency personnel	equipment and emergency procedures : Wear protective equipment as described in Section 8.			
S.1. Personal precautions, protective of S.1.1. For non-emergency personnel Protective equipment				
6.1. Personal precautions, protective of 6.1.1. For non-emergency personnel Protective equipment Emergency procedures	: Wear protective equipment as described in Section 8.			
	: Wear protective equipment as described in Section 8.			

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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6.3. Methods and material for contain	ment 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 person	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. Store in sealed containers under an inert atmosphere. Store
0	locked up.
Incompatible materials	: Aluminum. Zinc.
Storage area	: Store in a well-ventilated place.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/per	rsonal protection
8.1. Control parameters	
Sodium metagermanate, hydrate (12025-1	9-3)
	(TWA) (mg/m ³) 15 mg/m ³ nuisance dust
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 9: Physical and chemica	properties
9.1. Information on basic physical and	
Physical state	: Solid
Appearance	: Powder.
Molecular mass	: 166.57 g/mol
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
Refractive index	: 1.59
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 1083 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: none
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available

Vapor pressure

Relative density

VOC content

: < 0.01 mm Hg @ 20°C

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Solubility	: Water: > 500 g/l @ 25°C
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.	
10.3. Possibility of hazardous reactions	netagermanate polyhydrates. In contact with aluminum and zinc, may liberate hydrogen.
	netagermanate polynyurates. In contact with aluminum and zinc, may liberate hydrogen.
10.4. Conditions to avoid	
None known.	
10.5. Incompatible materials	
Aluminum. Zinc.	
10.6. Hazardous decomposition products	
When heated to decomposition emits sodium pe	roxide, sodium hydroxide and germanates.
SECTION 11: Toxicological informat	ion
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)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause respiratory irritation.
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.
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	
Other adverse effects	• This substance may be bazardous to the environment
	: This substance may be hazardous to the environment.

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Effect on ozone layer	: No	additional information available		
Effect on the global warming	; No	: No known ecological damage caused by this product.		
SECTION 13: Dispos	al considerations			
13.1. Waste treatment				
Sewage disposal recommer		not dispose of waste into sewer.		
Waste disposal recommend		ndfill. Dispose in a safe manner in	accordance with local/nationa	I regulations. Dispose of
		itents/container to licensed waste		
Ecology - waste materials	: Avo	bid release to the environment.		
SECTION 14: Transp	ort information			
14.1. UN number				
Not regulated for transport.				
14.2. UN proper shipp	ing name			
Not applicable				
14.3. Additional information	tion			
Other information		supplementary information availa	able.	
Transport by sea				
No additional information av	ailahle			
Air transport				
No additional information av	allable			
SECTION 15: Regula	tory information			
15.1. US Federal regulatio	ns			
Sodium metagermanate,	hydrate (12025-19-3)			
	s TSCA (Toxic Substances (Control Act) inventory		
15.2. International regulation	ons			
	hudrote (40005 40 0)			
Sodium metagermanate,	DSL (Non-Domestic Substan	voce Lint)		
Listed on the EEC invento	ry EINECS (European Inven	tory of Existing Commercial Che	mical Substances)	
Listed on the Korean ECL				
15.3. US State regulations				
SODIUM METAGERMANA				
U.S California - Propositio	0	No		
U.S California - Propositio Toxicity	n 65 - Developmental	No		
U.S California - Propositio	n 65 - Reproductivo	No		
Toxicity - Female				
U.S California - Propositio	n 65 - Reproductive	No		
Toxicity - Male				
Sodium metagermanate, h	ydrate (12025-19-3)			
U.S California -	U.S California -	U.S California -	U.S California -	No significance risk level
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity -	Proposition 65 - Reproductive Toxicity -	(NSRL)
Carcinoyens List		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.

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Full tex	t of H-phrases::	
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation

: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability Physical

Health

: 0 Minimal Hazard

: 0 Minimal Hazard

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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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