

Safety Data Sheet GEC2100
Date of issue: 01/15/2016 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 : CARBOXYETHYLGERMANIUM SESQUIOXIDE

Product code : GEC2100
Formula : C6H10Ge2O7

Synonyms : GERMANIUM SESQUIOXIDE; PROPANOIC ACID, 3,3'-(1,3-DIOXO-1,3-

DIGERMOXANEDIYL)BIS-; PROPAGERMANIUM

Chemical family : ORGANOGERMANIUM

1.2. Relevant identified uses of the substance 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 data sheet

GELEST, INC.

11 East Steel Road Morrisville, PA 19067

USA

T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST

info@gelest.com - www.gelest.com

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 or mixture

GHS-US classification

Not classified

2.2. Label elements

GHS-US labeling

No labeling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substance

Substance type : Multi-constituent

Name : CARBOXYETHYLGERMANIUM SESQUIOXIDE

CAS No : 12758-40-6 EC no : 235-800-0

Name	Product identifier	%	GHS-US classification
Carboxyethylgermanium sesquioxide	(CAS No) 12758-40-6	95 - 100	Not classified
Other Germanium Compounds		0 - 5	Not classified

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

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 not

available show packaging or label.

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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, if

present and easy to do. Continue rinsing. Get medical advice/attention.

Never give anything by mouth to an unconscious person. Get medical advice/attention. First-aid measures after ingestion

Most important symptoms and 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 : May cause eye irritation. Symptoms/injuries after ingestion : May be harmful if swallowed.

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Product not flammable. Use fire-fighting measures that suit the surrounding fire.

Unsuitable extinguishing media : None known.

Special hazards arising from the 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.

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 measures

Personal precautions, protective equipment and emergency procedures 6.1.

6.1.1. For non-emergency personnel

Protective equipment Wear protective equipment as described in Section 8.

Evacuate unnecessary personnel. **Emergency procedures**

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".

Environmental precautions

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

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

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 personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

: Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Provide local Precautions for safe handling

exhaust or general room ventilation to minimize exposure to dust.

Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild Hygiene measures

soap and water before eating, drinking or smoking and when leaving work.

Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

Incompatible materials Oxidizing agent.

Storage area : Store in a well-ventilated place.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

Control parameters

No additional information available

Exposure controls 8.2.

Odor

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.

Where exposure through inhalation may occur from use, respiratory protection equipment is Respiratory protection

recommended. NIOSH-certified dust and mist (orange cartridge) respirator.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : Solid Powder **Appearance** Molecular mass : 339.2 g/mol Color : White.

No data available No data available Odor threshold Refractive index No data available : No data available Hq Relative evaporation rate (butyl acetate=1) No data available Melting point 320 °C decomposes No data available Freezing point **Boiling point** No data available Flash point No data available Auto-ignition temperature No data available

No data available Decomposition temperature Flammability (solid, gas) Not flammable No data available Vapor pressure Relative vapor density at 20 °C No data available

Relative density : 1.28 VOC content : <3%

Soluble in water. Solubility

Water: 20 g/l @ 60°C

Log Pow : No data available No data available Log Kow Viscosity, kinematic No data available Viscosity, dynamic No data available : No data available Explosive properties : No data available Oxidizing properties **Explosion limits** : No data available

Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity

No additional information available

10.2. **Chemical stability**

Stable in sealed containers.

Possibility of hazardous reactions

No additional information available

Conditions to avoid

No additional information available

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Incompatible materials 10.5.

Oxidizing agent.

Hazardous decomposition products

Organic acid vapors. Germanium oxides.

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

: Not classified Acute toxicity

Carboxyethylgermanium sesquioxide (12758-40-6)		
LD50 oral rat	7050 mg/kg	
ATE US (oral)	7050.000 mg/kg body weight	
Skin corrosion/irritation :	Not classified	

: Not classified Serious eye damage/irritation Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity Not classified : Not classified Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated : Not classified exposure)

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 May cause eye irritation. Symptoms/injuries after ingestion May be harmful if swallowed.

SECTION 12: Ecological information

12.1. **Toxicity**

No additional information available

12.2. Persistence and degradability

No additional information available

Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

Other adverse effects 12.5.

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 considerations

Waste treatment methods 13.1.

Sewage disposal recommendations : Do not dispose of waste into sewer.

: Dispose in a safe manner in accordance with local/national regulations. Waste disposal recommendations

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. **UN** number

Not regulated for transport.

UN proper shipping name

Not applicable

14.3. Additional information

Other information : No supplementary information available.

Transport by sea

No additional information available

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Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Carboxyethylgermanium sesquioxide (12758-40-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

Carboxyethylgermanium sesquioxide (12758-40-6)

Listed on the Canadian NDSL (Non-Domestic Substances List)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Korean ECL (Existing Chemicals List)

15.3. US State regulations

CARBOXYETHYLGERMAN	ARBOXYETHYLGERMANIUM SESQUIOXIDE(12758-40-6)					
U.S California - Proposition	n 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				
Carboxyethylgermanium sesquioxide (12758-40-6)						
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			
Other Germanium Compounds						
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 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.

HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 1 Slight Hazard
Physical : 0 Minimal Hazard

Prepared by safety and environmental affairs.

SDS US (GHS HazCom 2012) - Custom

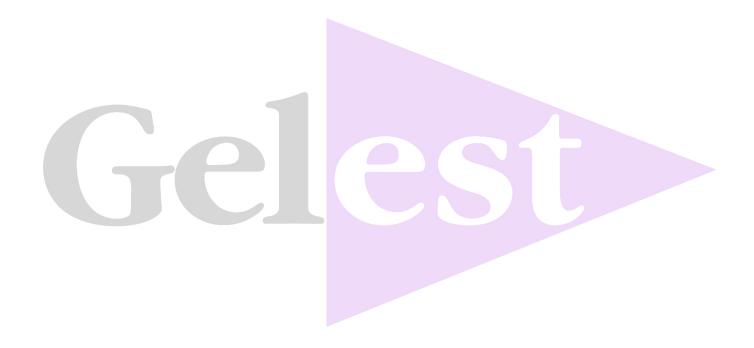
According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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