

Safety Data Sheet GEG5200 Date of issue: 01/05/2015 Version: 1.0

	bstance/mixture and of the company/undertaking			
1.1. Product identifier				
Product form	: Substance			
Physical state	: Solid			
Substance name	: GERMANIUM DIIODIDE			
Product code	: GEG5200			
Formula	: I2Ge			
Synonyms	: DIIODOGERMANE; GERMANIUM II IODIDE			
Chemical family	: GERMANIUM IODIDE			
1.2. Relevant identified uses of the sub	e 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 info@gelest.com	) AM - 5:30 PM EST			
1.4. Emergency telephone number				
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)			
Classification (GHS-US) Skin Corr. 1B H314 Eye Dam. 1 H318 Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)				
	GHS05			
Signal word (GHS-US)	: Danger			
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage			
Precautionary statements (GHS-US)	<ul> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection P260 - Do not breathe dust P264 - Wash hands thoroughly after handling P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower 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 P310 - Immediately call a doctor P363 - Wash contaminated clothing before reuse P405 - Store locked up P501 - Dispose of contents/container to licensed waste disposal facility.</li> </ul>			
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS-US)				

### No data available

SECTION 3: Composition/inform	ation on ingredients			
3.1. Substance				
Substance type	: Multi-constituent			
Name	: GERMANIUM DIIODIDE			
CAS No	: 13573-08-5			
EC no	: 236-998-1			
Name	Product identifier	%	Classification (GHS-US)	
Germanium iodide (Gel2)	(CAS No) 13573-08-5	> 95	Skin Corr. 1B, H314 Eye Dam. 1, H318	
Other Germanium Iodides		< 5	Skin Corr. 1B, H314 Eye Dam. 1, H318	
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measure	S			
First-aid measures general	<ul> <li>Remove contaminated clothing and shoes. In medical advice immediately (show the label available show packaging or label.</li> </ul>			
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in unwell, seek medical advice.	n a position com	fortable for breathing. If you feel	
First-aid measures after skin contact	: Wash with plenty of soap and water. Get imm	nediate medical	advice/attention.	
First-aid measures after eye contact	<ul> <li>Immediately flush eyes thoroughly with water present and easy to do. Continue rinsing. Get</li> </ul>			
First-aid measures after ingestion	: Never give anything by mouth to an unconsc	ious person. Ge	t medical advice/attention.	
4.2. Most important symptoms and	effects, both acute and delayed			
Symptoms/injuries	: Causes severe skin burns and eye damage.			
Symptoms/injuries after inhalation	: May cause respiratory irritation.			
Symptoms/injuries after skin contact	: Causes (severe) skin burns.			
Symptoms/injuries after eye contact	: Causes serious eye damage.			
Symptoms/injuries after ingestion	: No information available.			
4.3. Indication of any immediate me No additional information available	dical attention and special treatment needed			
SECTION 5: Firefighting measure	25			
5.1. Extinguishing media				
Suitable extinguishing media	: None.			
Jnsuitable extinguishing media	: Water.			
5.2. Special hazards arising from the		dovolor where	notorial in avaged to algorithe	
Fire hazard	: Irritating fumes and organic acid vapors may temperatures or open flame.	uevelop when i	naterial is exposed to elevated	

### 5.3. Advice for firefighters Firefighting instructions : Note, since germanium diodide is not flammable, precautions refer to mixtures with flammable materials. : Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapor and mist. Protection during firefighting

SECTION 6: Accidental release measures					
6.1.	Personal precautions, protective equipment and emergency procedures				
6.1.1. Emerger	For non-emergency personnel ncy procedures	: Evacuate unnecessary personnel.			
6.1.2.	For emergency responders				
Protectiv	e equipment	: Equip cleanup crew with proper protection.			
6.2.	Environmental precautions				
Prevent	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.				
6.3.	Methods and material for containment and cleaning up				
Methods	for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal.			

Safety Data Sheet

6.4. Reference to other sections	
See Heading 8. Exposure controls and person	
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. 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	
Storage conditions	: Keep container tightly closed. Avoid contact with water.
Incompatible materials	: Moisture. 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/per	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 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 SECTION 9: Physical and chemica	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.
Respiratory protection SECTION 9: Physical and chemica 9.1. Information on basic physical and	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>Il properties</li> <li>d chemical properties</li> <li>: Solid</li> </ul>
Respiratory protection SECTION 9: Physical and chemica 9.1. Information on basic physical and Physical state Appearance	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>Il properties</li> <li>d chemical properties</li> <li>Solid</li> <li>Solid.</li> </ul>
Respiratory protection SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Appearance Molecular mass	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>I properties</li> <li>d chemical properties</li> <li>Solid</li> <li>Solid.</li> <li>326.4 g/mol</li> </ul>
Respiratory protection SECTION 9: Physical and chemica 9.1. Information on basic physical and Physical state Appearance Molecular mass Color	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>I properties</li> <li>d chemical properties</li> <li>Solid</li> <li>Solid.</li> <li>326.4 g/mol</li> <li>Orange.</li> </ul>
Respiratory protection SECTION 9: Physical and chemica 9.1. Information on basic physical and Physical state Appearance Molecular mass Color Odor	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>Il properties</li> <li>d chemical properties</li> <li>Solid</li> <li>Solid.</li> <li>326.4 g/mol</li> <li>Orange.</li> <li>Acrid.</li> </ul>
Respiratory protection SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Appearance Molecular mass Color Odor Odor threshold	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>Il properties</li> <li>d chemical properties</li> <li>Solid</li> <li>Solid.</li> <li>326.4 g/mol</li> <li>Orange.</li> <li>Acrid.</li> <li>No data available</li> </ul>
Respiratory protection SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Appearance Molecular mass Color Odor Odor threshold Refractive index	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>I properties</li> <li>c chemical properties</li> <li>Solid</li> <li>Solid.</li> <li>Solid.</li> <li>326.4 g/mol</li> <li>Orange.</li> <li>Acrid.</li> <li>No data available</li> <li>No data available</li> </ul>
Respiratory protection SECTION 9: Physical and chemica 9.1. Information on basic physical and Physical state Appearance Molecular mass Color Odor Odor Odor threshold Refractive index pH	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>I properties</li> <li>d chemical properties</li> <li>Solid</li> <li>Solid</li> <li>Solid.</li> <li>326.4 g/mol</li> <li>Orange.</li> <li>Acrid.</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> </ul>
Respiratory protection SECTION 9: Physical and chemica 9.1. Information on basic physical and Physical state Appearance Molecular mass Color Odor Odor Odor threshold Refractive index oH Relative evaporation rate (butyl acetate=1)	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>I properties</li> <li>d chemical properties</li> <li>Solid</li> <li>Solid.</li> <li>326.4 g/mol</li> <li>Orange.</li> <li>Acrid.</li> <li>No data available</li> </ul>
Respiratory protection SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Appearance Molecular mass Color Odor Odor threshold Refractive index pH Relative evaporation rate (butyl acetate=1) Melting point	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>al properties</li> <li>d chemical properties</li> <li>Solid</li> <li>Solid</li> <li>Solid.</li> <li>326.4 g/mol</li> <li>Orange.</li> <li>Acrid.</li> <li>No data available</li> <li>Acrid.</li> </ul>
Respiratory protection SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Appearance Molecular mass Color Odor Odor Odor threshold Refractive index oH Relative evaporation rate (butyl acetate=1) Melting point Freezing point	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>I properties</li> <li>c chemical properties</li> <li>f Solid</li> <li>Solid.</li> <li>326.4 g/mol</li> <li>Orange.</li> <li>Acrid.</li> <li>No data available</li> </ul>
Respiratory protection SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Appearance Molecular mass Color Odor Odor threshold Refractive index oH Relative evaporation rate (butyl acetate=1) Melting point Freezing point Boiling point	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>I properties</li> <li>c chemical properties</li> <li>i Solid</li> <li>Solid.</li> <li>326.4 g/mol</li> <li>Orange.</li> <li>Acrid.</li> <li>No data available</li> </ul>
Respiratory protection SECTION 9: Physical and chemica 9.1. Information on basic physical and Physical state Appearance Molecular mass Color Odor Odor Odor threshold Refractive index oH Relative evaporation rate (butyl acetate=1) Melting point Freezing point Boiling point Flash point	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>I properties</li> <li>d chemical properties</li> <li>Solid</li> <li>Solid</li> <li>Solid.</li> <li>326.4 g/mol</li> <li>Orange.</li> <li>Acrid.</li> <li>No data available</li> </ul>
Respiratory protection SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Appearance Molecular mass Color Odor Odor threshold Refractive index pH Relative evaporation rate (butyl acetate=1) Melting point Freezing point Boiling point Flash point Auto-ignition temperature	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>I properties</li> <li>I chemical properties</li> <li>Solid</li> <li>Solid</li> <li>Solid.</li> <li>326.4 g/mol</li> <li>Orange.</li> <li>Acrid.</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>A data available</li> <li>No data available</li> </ul>
Respiratory protection SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Appearance Molecular mass Color Odor Odor Odor threshold Refractive index oH Relative evaporation rate (butyl acetate=1) Melting point Freezing point Bioling point Flash point Flash point Auto-ignition temperature Decomposition temperature	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>I properties</li> <li>c chemical properties</li> <li>: Solid</li> <li>: Solid.</li> <li>: 326.4 g/mol</li> <li>: Orange.</li> <li>: Acrid.</li> <li>: No data available</li> <li>: No data available</li> <li>: No data available</li> <li>: Ao data available</li> <li>: No data available</li> </ul>
Respiratory protection  SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Appearance Molecular mass Color Odor Odor Odor Odor threshold Refractive index oH Relative evaporation rate (butyl acetate=1) Melting point Freezing point Boiling point Flash point Flash point Auto-ignition temperature Decomposition temperature Flammability (solid, gas)	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>I properties</li> <li>d chemical properties</li> <li>Solid</li> <li>Solid.</li> <li>326.4 g/mol</li> <li>Orange.</li> <li>Acrid.</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>460 °C</li> <li>No data available</li> <li>Sol data avail</li></ul>
Respiratory protection SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Appearance Molecular mass Color Odor Odor threshold Refractive index oH Relative evaporation rate (butyl acetate=1) Melting point Freezing point Boiling point Flash point Flash point Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapor pressure	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>I properties</li> <li>d chemical properties</li> <li>Solid</li> <li>Solid.</li> <li>326.4 g/mol</li> <li>Orange.</li> <li>Acrid.</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>460 °C</li> <li>No data available</li> <li>No fata manilable</li> <li>No fata available</li> </ul>
Respiratory protection  SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Appearance Molecular mass Color Odor Odor threshold Refractive index pH Relative evaporation rate (butyl acetate=1) Melting point Freezing point Bioling point Flash point Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapor pressure Relative vapor density at 20 °C	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>I properties</li> <li>I chemical properties</li> <li>Solid</li> <li>Solid</li> <li>Solid.</li> <li>326.4 g/mol</li> <li>Orange.</li> <li>Acrid.</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>Aco °C</li> <li>No data available</li> <li>Sol data available</li> <li>No flammable</li> <li>0.1 mm Hg @ 284°C</li> </ul>
Respiratory protection  SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Appearance Molecular mass Color Odor Odor Odor threshold Refractive index oH Relative evaporation rate (butyl acetate=1) Melting point Freezing point Boiling point Flash point Relative vapor density at 20 °C Relative density	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>I properties</li> <li>chemical properties</li> <li>Solid</li> <li>Solid</li> <li>Solid.</li> <li>326.4 g/mol</li> <li>Orange.</li> <li>Acrid.</li> <li>No data available</li> <li>No flammable</li> <li>O.1 mm Hg @ 284°C</li> <li>No data available</li> </ul>
Respiratory protection  SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Appearance Molecular mass Color Odor Odor Odor threshold Refractive index pH Relative evaporation rate (butyl acetate=1) Melting point Freezing point Boiling point Flash point Flash point Flash point Auto-ignition temperature Flammability (solid, gas) Vapor pressure Relative vapor density at 20 °C Relative density Solubility	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>Iproperties</li> <li>chemical properties</li> <li>Solid</li> <li>Solid</li> <li>Solid.</li> <li>326.4 g/mol</li> <li>Orange.</li> <li>Acrid.</li> <li>No data available</li> <li>Sol data available</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>Sol data available</li> <li>No data available</li> <li>S45 °C</li> <li>No flammable</li> <li>0.1 mm Hg @ 284°C</li> <li>No data available</li> <li>5.73</li> </ul>
Respiratory protection  SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Appearance Molecular mass Color Odor Odor Odor threshold Refractive index pH Relative evaporation rate (butyl acetate=1) Melting point Freezing point Boiling point Flash point Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapor pressure Relative vapor density at 20 °C Relative density Solubility Log Pow	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>Iproperties</li> <li>chemical properties</li> <li>Solid</li> <li>Solid</li> <li>Solid</li> <li>Solid</li> <li>Solid</li> <li>326.4 g/mol</li> <li>Orange.</li> <li>Acrid.</li> <li>No data available</li> <li>Solo data available</li> <li>No data available</li> <li>No data available</li> <li>Solo data availabl</li></ul>
Respiratory protection  SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Appearance Molecular mass Color Odor Odor threshold Refractive index pH Relative evaporation rate (butyl acetate=1) Melting point Freezing point Boiling point Flash point Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapor pressure Relative vapor density at 20 °C Relative density Solubility Log Pow Log Kow	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>I properties</li> <li>chemical properties</li> <li>Solid</li> <li>Solid</li> <li>Solid</li> <li>Solid</li> <li>326.4 g/mol</li> <li>Orange.</li> <li>Acrid.</li> <li>No data available</li> <li>So data available</li> <li>So data available</li> <li>No data available</li> <li>So data available</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>So data available</li> <li>No data available</li> <li>So data available</li> <li>So data available</li> <li>So data available</li> <li>No data available</li> <li>So data available</li> <li>No data available</li> <li>So data available</li> <li>No data available</li> <li>So data available</li> <li>No data available</li> <l< td=""></l<></ul>
Respiratory protection  SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Appearance Molecular mass Color Odor Odor threshold Refractive index pH Relative evaporation rate (butyl acetate=1) Melting point Freezing point Boiling point Flash point Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapor pressure Relative vapor density at 20 °C Relative density Solubility Log Pow Log Kow Viscosity, kinematic	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>I properties</li> <li>Solid</li> <li>Solid</li> <li>Solid</li> <li>Solid</li> <li>Solid</li> <li>326.4 g/mol</li> <li>Orange.</li> <li>Acrid.</li> <li>No data available</li> <li>Solot data available</li> <li>No data available</li> <li>No data available</li> <li>Solot data available</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>Solot data available</li> <li>No data available</li> <li>Solot data available</li> <li>No data available</li> <li>Solot data available</li> <li>No data available&lt;</li></ul>
Skin and body protection Respiratory protection SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Appearance Molecular mass Color Odor Odor threshold Refractive index pH Relative evaporation rate (butyl acetate=1) Melting point Freezing point Boiling point Flash point Flash point Flash point Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapor pressure Relative vapor density at 20 °C Relative density Solubility Log Pow Log Kow Viscosity, kinematic Viscosity, kinematic Viscosity, dynamic Explosive properties	<ul> <li>Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.</li> <li>Iproperties</li> <li>chemical properties</li> <li>Solid</li> <li>Solid</li> <li>Solid.</li> <li>326.4 g/mol</li> <li>Orange.</li> <li>Acrid.</li> <li>No data available</li> <li>Sol data available</li> <li>No data available</li> <li>No data available</li> <li>Son flammable</li> <li>S.73</li> <li>Reacts with water.</li> <li>No data available</li> <li>No data available</li> <li>Son data available</li> <li>No data available</li> </ul>

Safety Data Sheet

Explosive limits	: No data available
9.2. Other information	
No additional information available	
<b>SECTION 10: Stability and reactivity</b>	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable.	
10.3. Possibility of hazardous reactions	
Reacts with warm water and moisture in air libera	ating hydrogen iodide.
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
Moisture. Water.	
10.6. Hazardous decomposition products	
Acid vapors. Germanium dioxide. Iodine (I).	
SECTION 11: Toxicological information	ion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
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	: Not classified
exposure)	
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Inhalation of large amounts is expected to cause necrosis of tracheal epithelium, bronchitis and interstitial pneumonia.
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes (severe) skin burns.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: No information available.
Reason for classification	: Expert judgment
<b>SECTION 12: Ecological information</b>	
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.
Effect on ozone layer	: No additional information available
Effect on the global warming	: No known ecological damage caused by this product.

Safety Data Sheet

SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
Waste disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.			
Ecology - waste materials	Avoid release to the environment.			
SECTION 14: Transport information				
14.1. UN number				
UN-No.(DOT)	1759			
DOT NA no.	UN1759			
14.2. UN proper shipping name				
Proper Shipping Name (DOT)	Corrosive solids, n.o.s.			
	(GERMANIUM DIIODIDE)			
Department of Transportation (DOT) Hazard Classes	8 - Class 8 - Corrosive material 49 CFR 173.136			
Hazard labels (DOT)	8 - Corrosive			
	8			
-	G - Identifies PSN requiring a technical name			
	II - Medium Danger			
	154 212			
DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)				
	240			
14.3. Additional information				
Other information	No supplementary information available.			
Transport by sea	A The material may be atowed "an deal," or "under deal," an a correct vessel and an a			
DOT Vessel Stowage Location	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.			
Air transport				
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	15 kg			
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	50 kg			
SECTION 15: Regulatory information				
15.1. US Federal regulations				
Germanium iodide (Gel2) (13573-08-5)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory				
15.2. International regulations				
Germanium iodide (Gel2) (13573-08-5)				
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				
GERMANIUM DIIODIDE(13573-08-5)				
U.S California - Proposition 65 - Carcinogens Lis	t 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

Safety Data Sheet

Germanium iodide (Gel2) (13573-08-5)				
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	No significance risk level (NSRL)
No	No	No	No	
Other Germanium lodides	<u>.</u>	•	•	
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	No significance 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.

Full tex	t of H-phrases::	
	Eye Dam. 1	Serious eye damage/eye irritation Category 1
	Skin Corr. 1B	Skin corrosion/irritation Category 1B
	H314	Causes severe skin burns and eye damage
	H318	Causes serious eye damage

HMIS III Rating				
Health	: 3 Seric given	ous Hazard - Major injury likely unle	ess prompt action is taken and m	edical treatment is
Flammability	: 0 Minin	nal Hazard		
Physical	: 1 Slight	t Hazard		
Prepared by safety and enviror	nmental affairs.			

Date of issue: 01/05/2015 Version: 1.0

SDS US (GHS HazCom 2012) - Custom

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

The information contained in this document has been gathered from reference materials and/or Gelest, Inc. test data and is to the best knowledge and belief of Gelest, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Gelest, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specifications.

© 2014 Gelest Inc. Morrisville, PA 19067