

Safety Data Sheet GEC2262 Date of issue: 08/15/2016 Version Version: 1.0

SECTION 1: Identification of the s	ubstance/mixture and of t	he company/undertaking		
1.1. Product identifier				
Product form	: Substance			
Physical state	: Solid			
Substance name	: CARBOXYETHYLTRICHLOROGERMANE			
Product code	: GEC2262			
Formula	: C3H5Cl3GeO2			
Synonyms	: TRICHLOROGERMYLPR			
Chemical family	: ORGANOCHLOROGERM			
1.2. Relevant identified uses of the su				
Use of the substance/mixture	: Chemical intermediate			
	For research and industrial	use only		
1.3. Details of the supplier of the safe	ety data sheet			
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8: info@gelest.com	00 AM - 5:30 PM EST			
1.4. Emergency telephone number				
Emergency number	: CHEMTREC: 1-800-424-93	300 (USA); +1 703-527-3887 (International)		
SECTION 2: Hazards identification	1			
2.1. Classification of the substance of				
GHS-US classification				
Skin Corr. 1C H314 Eye Dam. 1 H318				
Full text of H statements : 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 H318 - Causes serious eye			
Precautionary statements (GHS-US)	 P280 - Wear protective glo P260 - Do not breathe dusi P264 - Wash hands thorou P301+P330+P331 - If swal P303+P361+P353 - If on si skin with water/shower P304+P340 - If inhaled: Re P305+P351+P338 - IF IN E contact lenses, if present a P310 - Immediately call a c P321 - Specific treatment (P363 - Wash contaminatec P405 - Store locked up 	ves/protective clothing/eye protection/face protecti ghly after handling owed: rinse mouth. Do NOT induce vomiting kin (or hair): take off immediately all contaminated move person to fresh air and keep comfortable for YES: Rinse cautiously with water for several minu- nd easy to do. Continue rinsing octor see first aid instructions on this label)	clothing. rinse	
2.3. Other hazards	•			
Other hazards not contributing to the classification	: Hydrogen chloride may be PEL (TWA) for hydrogen cl	formed by reaction with water and moisture in air. lloride is 5 ppm.	The US OSHA	
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.4. Unknown acute toxicity (GHS U	IS)			
lo data available				
SECTION 3: Composition/Inform	ation on in	gredients		
.1. Substance				
Substance type				
lame CAS No		3OXYETHYLTRICHLOROGERMAN 1-23-6		
C no	: 240-0			
	. 240 0		0/	
Name CarboxyethyltrichlorogermaneCarboxyethyltrichl	orogermane	Product identifier (CAS No) 15961-23-6	% 95 -	GHS-US classification Skin Corr. 1C. H314
		(100	Eye Dam. 1, H318
Other Organogermanes			>= 0	Not classified
.2. Mixture				
lot applicable				
SECTION 4: First aid measures				
.1. Description of first aid measure				
irst-aid measures general	medie	ove contaminated clothing and shoes cal advice immediately (show the lab able show packaging or label.		
irst-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. 		
ïrst-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.			
ïrst-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 immediate medical advice/attention.			
irst-aid measures after ingestion	: Neve	r give anything by mouth to an unco	nscious person. Ge	et medical advice/attention.
.2. Most important symptoms and	effects, both	acute and delayed		
Symptoms/injuries after inhalation	: May o	cause irritation to the respiratory trac	xt.	
symptoms/injuries after skin contact	: Causes (severe) skin burns.			
symptoms/injuries after eye contact	: Causes serious eye damage.			
symptoms/injuries after ingestion		be harmful if swallowed.		
.3. Indication of any immediate me lo additional information available	dical attentio	n and special treatment needed		
SECTION 5: Firefighting measure	25			
.1. Extinguishing media				
Suitable extinguishing media	: Wate	r spray. Foam. Carbon dioxide. Dry	chemical.	
Insuitable extinguishing media		ot use straight streams.		
.2. Special hazards arising from th	e substance (or mixture		
ire hazard	: Irritat	ing fumes and organic acid vapors n eratures or open flame.	nay develop when	material is exposed to elevated
.3. Advice for firefighters				
irefighting instructions	: Exerc	cise caution when fighting any chemi	ical fire. Use water	spray to cool exposed surfaces.
Protection during firefighting		ot enter fire area without proper prote I contact with skin and eyes. Do not		ncluding respiratory protection.
ECTION 6: Accidental release n	neasures			
.1. Personal precautions, protectiv	e equipment	and emergency procedures		
.1.1. For non-emergency personnel				
Protective equipment	: Wear protective equipment as described in Section 8.			
mergency procedures	: Evac	uate unnecessary personnel.		
.1.2. For emergency responders				

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 containment	and cleaning up
	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. Sweep or shovel spills into appropriate container for disposal.
6.4. Reference to other sections	
See Heading 8. Exposure controls and personal pr	otection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
	Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Provide local
	exhaust or general room ventilation to minimize exposure to dust.
Hygiene measures :	Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, including	any incompatibilities
Storage conditions :	Keep container tightly closed. Store locked up.
Incompatible materials :	Bases. Moisture. Reducing agents. 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/persor	nal 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 :	Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified combination organic vapor/acid gas (yellow cartridge) respirator.
SECTION 9: Physical and chemical pro	operties
9.1. Information on basic physical and che	
	Solid
Appearance :	Crystalline solid.
Molecular mass :	252.06 g/mol
Color :	White.
Odor :	Characteristic.
Odor threshold :	No data available
Refractive index :	No data available
pH :	No data available
Relative evaporation rate (butyl acetate=1) :	<1
Melting point :	83 - 85 °C
Freezing point :	No data available
Boiling point :	> 200 °C
Flash point :	> 110 °C
Auto-ignition temperature :	No data available
Decomposition temperature :	No data available
Flammability (solid, gas) :	No data available
Vapor pressure :	< 1 mm Hg @ 25°C
Relative vapor density at 20 °C :	> 1
Relative density :	>1
Solubility :	Slightly. Soluble in water.
Log Pow :	No data available

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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		
Contact with water or moisture slowly generates I	nydrogen chloride.	
10.4. Conditions to avoid		
Heat. Open flame. Sparks.		
10.5. Incompatible materials		
Bases. Moisture. Reducing agents. Water.		
10.6. Hazardous decomposition products		
Hydrogen chloride. Organic acid vapors.		
SECTION 11: Toxicological informati	on	
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 exposure)	: Not classified	
	: Not classified	
Aspiration hazard		
Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract.	
Symptoms/injuries after skin contact	: Causes (severe) skin burns.	
Symptoms/injuries after eye contact	: Causes serious eye damage.	
Symptoms/injuries after ingestion Reason for classification	: 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 hazardous to the en	vironment
Effect on ozone layer	: No additional information available	
Effect on the global warming	: No known effects from this product.	
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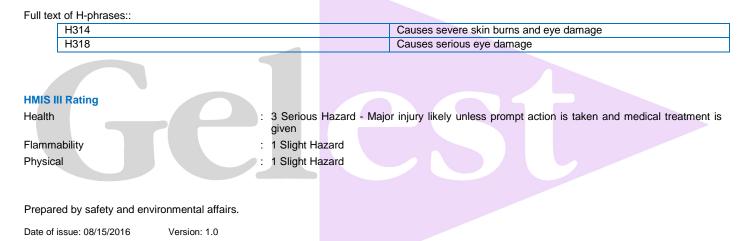
SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
	Do not dispose of waste into sewer.			
Waste disposal recommendations :	spose in a safe manner in accordance with local/national regulations. Dispose of ntents/container to licensed waste disposal facility.			
Ecology - waste materials :	Avoid release to the environment.			
SECTION 14: Transport information				
14.1. UN number				
	1759			
DOT NA no.	UN1759			
14.2. UN proper shipping name				
	Corrosive solids, n.o.s. (CARBOXYETHYLTRICHLOROGERMANE)			
Class (DOT) :	8 - Class 8 - Corrosive material 49 CFR 173.136			
Hazard labels (DOT) :	8 - Corrosive			
-	G - Identifies PSN requiring a technical name			
	III - Minor Danger			
	154			
	213			
DOT Packaging Bulk (49 CFR 173.xxx) :	240			
14.3. Additional information				
Emergency Response Guide (ERG) Number :	154			
Transport by sea DOT Vessel Stowage Location :	No supplementary information available. 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)	25 kg			
DOT Quantity Limitations Cargo aircraft only (49 : CFR 175.75)	100 kg			
SECTION 15: Regulatory information				
15.1. US Federal regulations				
CarboxyethyltrichlorogermaneCarboxyethyltric Listed on the United States TSCA (Toxic Substanc				
15.2. International regulations				
CarboxyethyltrichlorogermaneCarboxyethyltric Listed on the Canadian NDSL (Non-Domestic Subs	- · · · · · ·			
	ventory of Existing Commercial Chemical Substances)			
15.3. US State regulations				
CARBOXYETHYLTRICHLOROGERMANE(15961-2	(3-6)			
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			

Toxicity - Male

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Other Organogermanes					
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		
CarboxyethyltrichlorogermaneCarboxyethyltrichlorogermane (15961-23-6)					
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		

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.



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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