

Safety Data Sheet GET8640
Date of issue: 28/01/2015 Version: 1.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Substance
Physical state : Solid

Substance name : TRIPHENYLCHLOROGERMANE, tech-95

Product code : GET8640
Formula : C18H15CIGe

Synonyms : CHLOROTRIPHENYLGERMANE; TRIPHENYLGERMANIUM CHLORIDE

Chemical family : GERMANIUM CHLORIDE

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Chemical intermediate

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

#### **GELEST, INC.**

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USA

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### 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

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 1B H314
Serious eye damage/eye irritation, Category 1 H318

Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) : Dange

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P260 - Do not breathe dust.

P264 - Wash hands thoroughly after handling.

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P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

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 POISON CENTER or doctor/physician

#### Other hazards

No additional information available

### **SECTION 3: Composition/information on ingredients**

#### **Substances**

Substance type : Mono-constituent

Name TRIPHENYLCHLOROGERMANE, tech-95

CAS-No. 1626-24-0 FC-No. : 216-617-5

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Triphenylchlorogermane	(CAS-No.) 1626-24-0 (EC-No.) 216-617-5	> 95	Skin Corr. 1B, H314 Eye Dam. 1, H318

Full text of H-statements: see section 16

#### **Mixtures**

Not applicable

### **SECTION 4: First aid measures**

### **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.

First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical

advice.

First-aid measures after skin contact Wash with plenty of water/.... Get immediate medical advice/attention.

: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if First-aid measures after eye contact

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

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

### Most important symptoms and effects, both acute and delayed

Symptoms/effects : Causes severe skin burns and eye damage.

Symptoms/effects after inhalation : May cause respiratory irritation. Symptoms/effects after skin contact : Causes (severe) skin burns. Symptoms/effects after eye contact : Causes serious eye damage. Symptoms/effects 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**

: Water spray. Foam. Carbon dioxide. Dry chemical. Suitable extinguishing media

Unsuitable extinguishing media : Water.

#### 5.2. Special hazards arising from the substance or mixture

: Irritating fumes of hydrogen chloride and organic acid vapors may develop when material is Fire hazard

exposed to water or open flame.

### **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 all eye and skin contact and do not breathe vapour and mist.

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### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

#### 6.2. Environmental precautions

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.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal 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. 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, including any incompatibilities

Storage conditions : Keep container tightly closed.

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/personal 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 dust and mist (orange cartridge) respirator.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Solid.
Molecular mass : 339.36 g/mol
Colour : Off-white.

Odour : Acrid. Similar to hydrogen chloride.

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Odour threshold : No data available

Refractive index : No additional information available

pH : No data available Relative evaporation rate (butylacetate=1) : No data available

Melting point : 117 °C

Freezing point : No data available **Boiling point** : 285 °C @ 12 mm Hg : No data available Flash point Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapour pressure No data available Relative vapour density at 20 °C No data available No data available Relative density

Solubility : Insoluble in water. Reacts with 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
Oxidising properties : No data available
Explosive 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 inert atmosphere.

### 10.3. Possibility of hazardous reactions

Reacts with water and moisture in air, liberating hydrogen chloride.

### 10.4. Conditions to avoid

Heat. Open flame. Sparks.

### 10.5. Incompatible materials

Respiratory or skin sensitisation

Moisture. Water:

### 10.6. Hazardous decomposition products

Hydrogen chloride. Organic acid vapors.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes severe skin burns and eye damage.

: Not classified

Serious eye damage/irritation : Causes serious eye damage.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Causes (severe) skin burns.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : May be harmful if swallowed.

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Reason for classification : Expert judgment

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

#### 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. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

Other adverse effects : This substance may be hazardous to the environment.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Product/Packaging 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

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

 UN-No. (ADR)
 : 1759

 UN-No. (IMDG)
 : 1759

 UN-No. (IATA)
 : 1759

 UN-No. (ADN)
 : 1759

 UN-No. (RID)
 : 1759

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : CORROSIVE SOLID, N.O.S.
Proper Shipping Name (IMDG) : CORROSIVE SOLID, N.O.S.
Proper Shipping Name (IATA) : Corrosive solid, n.o.s.
Proper Shipping Name (ADN) : CORROSIVE SOLID, N.O.S.
Proper Shipping Name (RID) : CORROSIVE SOLID, N.O.S.

Transport document description (ADR)

: UN 1759 CORROSIVE SOLID, N.O.S. (TRIPHENYLCHLOROGERMANE), 8, III, (E)

Transport document description (IMDG)

: UN 1759 CORROSIVE SOLID, N.O.S. (TRIPHENYLCHLOROGERMANE), 8, III

Transport document description (IATA)

: UN 1759 Corrosive solid, n.o.s. (TRIPHENYLCHLOROGERMANE), 8, III

Transport document description (RDN)

: UN 1759 CORROSIVE SOLID, N.O.S. (TRIPHENYLCHLOROGERMANE), 8, III

Transport document description (RID)

: UN 1759 CORROSIVE SOLID, N.O.S. (TRIPHENYLCHLOROGERMANE), 8, III

### 14.3. Transport hazard class(es)

### ADR

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8



### **IMDG**

Transport hazard class(es) (IMDG) : 8

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Danger labels (IMDG) : 8

### IATA

Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8



### ADN

Transport hazard class(es) (ADN) : 8
Danger labels (ADN) : 8



#### RID

Transport hazard class(es) (RID) : 8
Danger labels (RID) : 8



### 14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

### 14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

### - Overland transport

Classification code (ADR) : C10
Special provisions (ADR) : 274
Limited quantities (ADR) : 5kg
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Mixed packing provisions (ADR) : MP10
Portable tank and bulk container instructions : T1

(ADR)

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Portable tank and bulk container special : TP33

provisions (ADR)

Tank code (ADR) : SGAV, L4BN

Vehicle for tank carriage : AT Transport category (ADR) : 3

Special provisions for carriage - Bulk (ADR) : VC1, VC2, AP7

Hazard identification number (Kemler No.) : 80

Orange plates :

80 1759

Tunnel restriction code (ADR) : E EAC code : 2X

#### - Transport by sea

Special provisions (IMDG) : 223, 274

Limited quantities (IMDG) : 5 kg

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P002, LP02

IBC packing instructions (IMDG) : IBC08

IBC special provisions (IMDG) : B3

Tank instructions (IMDG) : T1

Tank instructions (IMDG) : T1
Tank special provisions (IMDG) : TP33
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Stowage category (IMDG) : A

Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes.

: 8L

#### - Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y845 PCA limited quantity max net quantity (IATA) : 5kg PCA packing instructions (IATA) : 860 PCA max net quantity (IATA) : 25kg CAO packing instructions (IATA) : 864 CAO max net quantity (IATA) : 100kg Special provisions (IATA) : A3

- Inland waterway transport

Classification code (ADN) : C10

Special provisions (ADN) : 274

Limited quantities (ADN) : 5 kg

Excepted quantities (ADN) : E1

Equipment required (ADN) : PP, EP

Number of blue cones/lights (ADN) : 0

#### - Rail transport

ERG code (IATA)

Classification code (RID) : C10
Special provisions (RID) : 274
Limited quantities (RID) : 5kg
Excepted quantities (RID) : E1

Packing instructions (RID) : P002, IBC08, LP02, R001

Special packing provisions (RID) : B3

Mixed packing provisions (RID) : MP10

Portable tank and bulk container instructions : T1

(RID)

Portable tank and bulk container special

provisions (RID)

: TP33

Tank codes for RID tanks (RID) : SGAV, L4BN

Transport category (RID) : 3

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Special provisions for carriage – Bulk (RID) : VC1, VC2, AP7

Colis express (express parcels) (RID) : CE11
Hazard identification number (RID) : 80

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

#### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

TRIPHENYLCHLOROGERMANE, tech-95 is not on the REACH Candidate List

TRIPHENYLCHLOROGERMANE, tech-95 is not on the REACH Annex XIV List

TRIPHENYLCHLOROGERMANE, tech-95 is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

TRIPHENYLCHLOROGERMANE, tech-95 is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

#### 15.1.2. National regulations

#### Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

#### **Netherlands**

SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding

Successful Beletveeding

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Ontwikkeling

: The substance is not listed

The substance is not listedThe substance is not listed

: The substance is not listed

: The substance is not listed

#### Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

No additional information available

### **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; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

Other information : Prepared by safety and environmental affairs

#### Full text of H- and EUH-statements:

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.

#### SDS EU (REACH Annex II) - Custom

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.

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