1,2-BIS(TRIETHOXYSILYL)ETHANE

Safety Data Sheet SIB1817.0

Date of issue: 11/03/2014  Revision date: 08/07/2019  Version: 2.5

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

1.1. Product identifier

- **Product form**: Substance
- **Physical state**: Liquid
- **Substance name**: 1,2-BIS(TRIETHOXYSILYL)ETHANE
- **Product code**: SIB1817.0
- **Formula**: C14H34O6Si2
- **Synonyms**: BSE HEXAETHOXYDISETHYLENE 4,4,7,7-TETRAETHOXY-3,8-DIOXA-4,7-DISILADECANE
- **Chemical family**: ORGANOETHOXYSIANE

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.
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

GELEST INC.
Fritz-Klatte-Strasse 8
65933 Frankfurt
Germany
T +49 (0) 69 3535106-500 - F +49 (0) 69 3535106-501 - (M-F): 8:00 AM - 4:00 PM
info@gelestde.com - www.gelestde.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

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

- **Acute toxicity (oral)**, Category 3: H301
- **Acute toxicity (dermal)**, Category 4: H312
- **Serious eye damage/eye irritation**, Category 2: H319

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)**: GHS06
- **Signal word (CLP)**: Danger
- **Hazard statements (CLP)**: H301 - Toxic if swallowed.
2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances
Substance type: Multi-constituent
Name: 1,2-BIS(TRIETHOXYSILYL)ETHANE
CAS-No.: 16068-37-4
EC-No.: 240-212-2

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Bis(triethoxysilyl)ethane</td>
<td>(CAS-No.) 16068-37-4</td>
<td>95 - 100</td>
<td>Acute Tox. 3 (Oral), H301</td>
</tr>
<tr>
<td></td>
<td>(EC-No.) 240-212-2</td>
<td></td>
<td>Acute Tox. 4 (Dermal), H312</td>
</tr>
<tr>
<td>1,1-Bis(triethoxysilyl)ethane</td>
<td>(CAS-No.) 16068-36-3</td>
<td>0 - 5</td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>1,2-Bis(triethoxysilyl)ethylene</td>
<td>(CAS-No.) 87061-56-1</td>
<td>0 - 5</td>
<td>Eye Irrit. 2, H319</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

3.2. Mixtures
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.

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 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.

First-aid measures after ingestion: Never give anything by mouth to an unconscious person. Call a POISON CENTER/doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/effects after inhalation: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact: Harmful in contact with skin. May cause skin irritation.
Symptoms/effects after eye contact: Causes eye irritation.
Symptoms/effects after ingestion: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

Chronic symptoms: On contact with water this compound liberates ethanol which is known to have a chronic effect on the central nervous system.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

 Unsuitable extinguishing media: Do not use straight streams.

### 1,2-BIS(TRIETHOXYSYILYL)ETHANE

#### Safety Data Sheet

5.2. **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. Use water spray or fog for cooling exposed containers. |
| 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. |

#### SECTION 6: Accidental release measures

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

<table>
<thead>
<tr>
<th>For non-emergency personnel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protective equipment</td>
</tr>
<tr>
<td>Emergency procedures</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>For emergency responders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protective equipment</td>
</tr>
</tbody>
</table>

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**

| For containment | 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. |

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 all eye and skin contact and do not breathe vapour and mist. Provide good ventilation in process area to prevent formation of vapour. |
| 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. |
| Incompatible materials | Oxidizing agent. |
| 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**

| 1,2-Bis(triethoxysilyl)ethane (16068-37-4) | USA OSHA | OSHA PEL (TWA) (ppm) | 10 ppm (by analogy with tetraethoxysilane [78-10-4] a maximum exposure of 10ppm is recommended for this product) |

8.2. **Exposure controls**

**Appropriate engineering controls:**

Handle in an enclosing hood with exhaust ventilation.

**Personal protective equipment:**

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Avoid all unnecessary exposure.

**Hand protection:**

Neoprene or nitrile rubber gloves

**Eye protection:**
1,2-BIS(TRIETHOXYSILYL)ETHANE
Safety Data Sheet

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 organic vapor (black cartridge) respirator.

### SECTION 9: Physical and chemical properties

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>Molecular mass</td>
<td>354.59 g/mol</td>
</tr>
<tr>
<td>Colour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour</td>
<td>Slight</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Refractive index</td>
<td>1.4052</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>-33 °C</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>96 °C @ 0.3 mm Hg</td>
</tr>
<tr>
<td>Flash point</td>
<td>107 °C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>10 mm Hg @ 150°C</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>&gt; 1</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.957</td>
</tr>
<tr>
<td>% Volatiles</td>
<td>&lt; 5 %</td>
</tr>
<tr>
<td>Solubility</td>
<td>Reacts with water</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### 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.

#### 10.3. Possibility of hazardous reactions

Material decomposes slowly in contact with moist air or with water liberating ethanol. Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Heat. Sparks. Open flame.

#### 10.5. Incompatible materials

Oxidizing agent.

#### 10.6. Hazardous decomposition products

1,2-BIS(TRIETHOXYSILYL)ETHANE
Safety Data Sheet

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity: Toxic if swallowed. Harmful in contact with skin.

<table>
<thead>
<tr>
<th>Compound</th>
<th>LD50 oral rat</th>
<th>LD50 dermal rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Bis(triethoxysilyl)ethane</td>
<td>161 mg/kg</td>
<td>1971 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Causes serious eye irritation.
   - Eye irritation - rabbit: mild irritation
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
   - This material was not mutagenic in an Ames bacterial assay.
Carcinogenicity: Not classified
   - None of the components in this product at concentrations >0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.
Reproductive toxicity: Not classified
STOT-single exposure: Not classified
STOT-repeated exposure: Not classified
Aspiration hazard: Not classified
Potential adverse human health effects and symptoms: This material slowly generates ethanol on contact with water and moisture in living tissues. Material generates ethanol on contact with water or moisture in skin, eyes and mucous membranes and has an irritating, dehydrating effect on overexposed tissue.
Symptoms/effects after inhalation: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact: Harmful in contact with skin. May cause skin irritation.
Symptoms/effects after eye contact: Causes eye irritation.
Symptoms/effects after ingestion: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.
Chronic symptoms: On contact with water this compound liberates ethanol which is known to have a chronic effect on the central nervous system.
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
Sewage disposal recommendations: Do not dispose of waste into sewer.
Product/Packaging disposal recommendations: Incinerate. 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)  | : 2810 |
| UN-No. (IMDG) | : 2810 |
| UN-No. (IATA) | : 2810 |
| UN-No. (ADN)  | : 2810 |
| UN-No. (RID)  | : 2810 |

## 14.2. UN proper shipping name

| Proper Shipping Name (ADR) | : TOXIC LIQUID, ORGANIC, N.O.S. |
| Proper Shipping Name (IMDG) | : TOXIC LIQUID, ORGANIC, N.O.S. |
| Proper Shipping Name (IATA) | : Toxic liquid, organic, n.o.s. |
| Proper Shipping Name (ADN)  | : TOXIC LIQUID, ORGANIC, N.O.S. |
| Proper Shipping Name (RID)  | : TOXIC LIQUID, ORGANIC, N.O.S. |

### Transport document description

**ADR**
- Transport document description (ADR): UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (1,2-BIS(TRIETHOXYSILYL)ETHANE), 6.1, III, (E)

**IMDG**
- Transport document description (IMDG): UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (1,2-BIS(TRIETHOXYSILYL)ETHANE), 6.1, III

**IATA**
- Transport document description (IATA): UN 2810 Toxic liquid, organic, n.o.s. (1,2-BIS(TRIETHOXYSILYL)ETHANE), 6.1, III

**ADN**
- Transport document description (ADN): UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (1,2-BIS(TRIETHOXYSILYL)ETHANE), 6.1, III

**RID**
- Transport document description (RID): UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (1,2-BIS(TRIETHOXYSILYL)ETHANE), 6.1, III

## 14.3. Transport hazard class(es)

### ADR
- Transport hazard class(es) (ADR): 6.1
- Danger labels (ADR): 6.1

### IMDG
- Transport hazard class(es) (IMDG): 6.1
- Danger labels (IMDG): 6.1

### IATA
- Transport hazard class(es) (IATA): 6.1
- Hazard labels (IATA): 6.1

### ADN
- Transport hazard class(es) (ADN): 6.1
- Danger labels (ADN): 6.1

### RID
1,2-BIS(TRIETHOXYSILYL)ETHANE
Safety Data Sheet

Transport hazard class(es) (RID) : 6.1
Danger labels (RID) : 6.1

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) : T1
Special provisions (ADR) : 274, 614
Limited quantities (ADR) : 51
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T7
Tank code (ADR) : L4BH
Tank special provisions (ADR) : TU15, TE19
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13, CV28
Special provisions for carriage - Operation (ADR) : S9
Hazard identification number (Kemler No.) : 60
Orange plates : 60
Tunnel restriction code (ADR) : E
EAC code : 2X
APP code : B

- Transport by sea
Special provisions (IMDG) : 223, 274
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T7
Tank special provisions (IMDG) : TP1, TP28
EmS-No. (Fire) : F-A
1,2-BIS(TRIETHOXYSILYL)ETHANE
Safety Data Sheet

EmS-No. (Spillage) : S-A
Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW2
Properties and observations (IMDG) : Toxic if swallowed, by skin contact or by inhalation.

- Air transport
  PCA Excepted quantities (IATA) : E1
  PCA Limited quantities (IATA) : Y642
  PCA limited quantity max net quantity (IATA) : 2L
  PCA packing instructions (IATA) : 655
  PCA max net quantity (IATA) : 60L
  CAO packing instructions (IATA) : 663
  CAO max net quantity (IATA) : 220L
  Special provisions (IATA) : A3, A4, A137
  ERG code (IATA) : 6L

- Inland waterway transport
  Classification code (ADN) : T1
  Special provisions (ADN) : 274, 614, 802
  Limited quantities (ADN) : 5 L
  Excepted quantities (ADN) : E1
  Carriage permitted (ADN) : T
  Equipment required (ADN) : PP, EP, TOX, A
  Ventilation (ADN) : VE02
  Number of blue cones/ lights (ADN) : 0

- Rail transport
  Classification code (RID) : T1
  Special provisions (RID) : 274, 614
  Limited quantities (RID) : 5L
  Excepted quantities (RID) : E1
  Packing instructions (RID) : P001, IBC03, LP01, R001
  Mixed packing provisions (RID) : MP19
  Portable tank and bulk container instructions (RID) : T7
  Portable tank and bulk container special provisions (RID) : TP1, TP28
  Tank codes for RID tanks (RID) : L4BH
  Special provisions for RID tanks (RID) : TU15
  Transport category (RID) : 2
  Special provisions for carriage – Packages (RID) : W12
  Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW28, CW31
  Colis express (express parcels) (RID) : CE8
  Hazard identification number (RID) : 60

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
1,2-BIS(TRIETHOXYSILYL)ETHANE is not on the REACH Candidate List
1,2-BIS(TRIETHOXYSILYL)ETHANE is not on the REACH Annex XIV List
1,2-BIS(TRIETHOXYSILYL)ETHANE 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.
1,2-BIS(TRIETHOXYSILYL)ETHANE
Safety Data Sheet

% Volatiles : < 5 %

15.1.2. National regulations

Germany

Netherlands
SZW-lijst van kankerverwekkende stoffen : The substance is not listed
SZW-lijst van mutagene stoffen : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

Denmark
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with 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.: Chemical 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:

<table>
<thead>
<tr>
<th>Acute Tox. 3 (Oral)</th>
<th>Acute toxicity (oral), Category 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Dermal)</td>
<td>Acute toxicity (dermal), Category 4</td>
</tr>
<tr>
<td>Eye Irrit. 2</td>
<td>Serious eye damage/eye irritation, Category 2</td>
</tr>
<tr>
<td>H301</td>
<td>Toxic if swallowed.</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
</tbody>
</table>

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.

© 2019 Gelest Inc. Morrisville, PA 19067
NOTICE OF SIGNIFICANT NEW USE RULE
SIB1817.0
1,2-BIS(TRIETHOXYSILYL)ETHANE

Dear Customer:

The chemical product purchased, SIB1817.0 is subject to a U.S. Environmental Protection Agency (EPA) Significant New Use Rule (SNUR) under the Toxic Substances Control Act (TSCA) regulations. Any manufacturer or processor who intends to use a chemical substance for commercial purposes with an identified new use must file a Significant New Use Notification (SNUN) with EPA.

Please reference the US Code of Federal Regulations at 40 CFR Part 721.3155, 3,8-Dioxa-4,7-disiladecane, 4,4,7,7-tetraethoxy, to review the specific designated new uses for 1,2-BIS(TRIETHOXYSILYL)ETHANE [CAS #16068-37-4] which would require EPA approval prior to that new use. If this product will be used for research and development purposes, please reference 40 CFR 721.47 to understand the specific conditions for the research and development exemption.

If you have questions or need more information related to a significant new use of a chemical substance, call the Toxic Substances Control Act (TSCA) Hotline at 202-554-1404 or email: tsca-hotline@epa.gov.

BestRegards,

Gelest, Inc. Regulatory Affairs Department