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

1.1. Product identifier

Product form : Substance
Physical state : Solid
Substance name : TRIS(TRIMETHYLSILYLMETHYL)PHOSPHINE
Product code : SIT8722.7
Formula : C12H33P<br>Si3
Synonyms : TRIS(TRIMETHYLSILYLMETHYL)PHOSPHANE
Chemical family : ORGANOSILANE

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@geleste.de - www.geleste.de

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]

Self-Heating Substances and Mixtures, Category 2 H252
Acute toxicity (inhalation:dust,mist) Category 2 H330
Serious eye damage/eye irritation, Category 2 H319
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335
Specific target organ toxicity — Repeated exposure, Category 2 H373

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) : 

- GHS02
- GHS06
- GHS08
TRIS(TRIMETHYLSILYL METHYL)PHOSPHINE
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Signal word (CLP) : Danger
Hazard statements (CLP) :
H252 - Self-heating in large quantities; may catch fire.
H319 - Causes serious eye irritation.
H330 - Fatal if inhaled.
H335 - May cause respiratory irritation.
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements (CLP) :
P260 - Do not breathe dust.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P284 - Wear respiratory protection.
P310 - Immediately call a POISON CENTER or doctor/physician

2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients
3.1. Substances

<table>
<thead>
<tr>
<th>Substance type</th>
<th>Name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mono-constituent</td>
<td>TRIS(TRIMETHYLSILYL METHYL)PHOSPHINE</td>
<td>18077-42-4</td>
<td>241-986-4</td>
</tr>
</tbody>
</table>

<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>Tris(trimethylsilylmethyl)phosphine</td>
<td>(CAS-No.) 18077-42-4 (EC-No.) 241-986-4</td>
<td>95 - 100</td>
<td>Self-heat. 2, H252 Acute Tox. 2 (Inhalation), H330 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373</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. Immediately call a POISON CENTER/doctor.

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. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects :
May cause damage to organs through prolonged or repeated exposure.

Symptoms/effects after inhalation :
Fatal if inhaled. May cause respiratory irritation. By analogy this compound should be handled as a poison by inhalation. Effects may include central nervous system depression and irritation of the respiratory tract and pulmonary edema.

Symptoms/effects after skin contact :
May cause skin irritation.

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

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

Chronic symptoms :
Chronic Toxicity: There are no known chronic effects related to this compound. By analogy with phosphine, low level exposure may lead to anemia, bronchitis and gastrointestinal disturbances.

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

SECTION 5: Firefighting measures
5.1. Extinguishing media
Suitable extinguishing media :
### Unsuitable extinguishing media
- Water.

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

**Fire hazard:**
- Self-heating in large quantities; may catch fire. Irritating fumes may develop when material is exposed to water or open flame.

### 5.3. Advice for firefighters

**Firefighting instructions:**
- Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.

**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

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

##### 6.1.1. For non-emergency personnel

**Protective equipment:**
- Wear protective equipment as described in Section 8.

**Emergency procedures:**
- Evacuate unnecessary personnel.

##### 6.1.2. 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”.

#### 6.2. 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 streams.

**Methods for cleaning up:**
- Spill responders must wear safety equipment appropriate for flammable and toxic material handling. 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

- Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Use only outdoors or in a well-ventilated area.

**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. Keep cool. Protect from sunlight. Store locked up. Store away from other materials. Store under dry nitrogen or argon in sealed containers below 25°C.

**Incompatible materials:**

**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

<table>
<thead>
<tr>
<th>Tris[(trimethylsilylmethyl)]phosphine (18077-42-4)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Italy - Portugal - USA ACGIH</strong> ACGIH TWA (ppm)</td>
</tr>
<tr>
<td><strong>USA OSHA</strong> OSHA PEL (TWA) (ppm)</td>
</tr>
</tbody>
</table>

#### 8.2. Exposure controls

**Appropriate engineering controls:**
- Handle in an enclosing hood with exhaust 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:**
-
TRIS(TRIMETHYLSILYL METHYL)PHOSPHINE
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Chemical goggles. Contact lenses should not be worn

**Skin and body protection:**
Wear suitable protective clothing

**Respiratory protection:**
In case of inadequate ventilation wear respiratory protection. NIOSH-certified combination organic vapor - amine gas (brown cartridge) respirator with particle filter.

### 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>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Solid. Smokes (may ignite) on contact with air.</td>
</tr>
<tr>
<td>Molecular mass</td>
<td>292.62 g/mol</td>
</tr>
<tr>
<td>Colour</td>
<td>White.</td>
</tr>
<tr>
<td>Odour</td>
<td>Disagreeable.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Refractive index</td>
<td>No additional information available</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>66 - 70 °C</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>70 °C @ 1 mm Hg sub</td>
</tr>
<tr>
<td>Flash point</td>
<td>182 °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>Self-heating in large quantities; may catch fire.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>&lt; 0.1 mm Hg @ 25°C</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>&gt; 1</td>
</tr>
<tr>
<td>Relative density</td>
<td>1</td>
</tr>
<tr>
<td>Solubility</td>
<td>Reacts with water.</td>
</tr>
<tr>
<td></td>
<td>Organic solvent:Soluble: hexane</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 stored under a dry inert atmosphere.

#### 10.3. Possibility of hazardous reactions
Reacts with oxygen, water and moisture in air.

#### 10.4. Conditions to avoid
Heat. Open flame. Sparks.

#### 10.5. Incompatible materials
Acids. alcohols. Oxidizers.

#### 10.6. Hazardous decomposition products
SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Fatal if inhaled.

TRIS(TRIMETHYLSILYL METHYL)PHOSPHINE (18077-42-4)

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Limit Value (mg/l/4h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE CLP (dust,mist)</td>
<td>0.05</td>
</tr>
<tr>
<td>Tris[(trimethylsilylmethyl)]phosphine (18077-42-4) ATE CLP (gases)</td>
<td>100 ppmv/4h</td>
</tr>
<tr>
<td>ATE CLP (vapours)</td>
<td>0.5</td>
</tr>
<tr>
<td>ATE CLP (dust,mist)</td>
<td>0.05</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Causes serious eye irritation.
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
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: An experimental teratogen.

STOT-single exposure: May cause respiratory irritation.
STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard: Not classified
Potential adverse human health effects and symptoms: This material may have health effects similar to phosphine, but no studies have been conducted. Exposure of workers with respiratory deficiencies should be prohibited.
Symptoms/effects after inhalation: Fatal if inhaled. May cause respiratory irritation. By analogy this compound should be handled as a poison by inhalation. Effects may include central nervous system depression and irritation of the respiratory tract and pulmonary edema.
Symptoms/effects after skin contact: May cause skin irritation.
Symptoms/effects after eye contact: Causes serious eye irritation.
Symptoms/effects after ingestion: May be harmful if swallowed.
Chronic symptoms: Chronic Toxicity: There are no known chronic effects related to this compound. By analogy with phosphine, low level exposure may lead to anemia, bronchitis and gastrointestinal disturbances.

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: 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

<table>
<thead>
<tr>
<th>UN-No. (ADR)</th>
<th>UN-No. (IMDG)</th>
<th>UN-No. (IATA)</th>
<th>UN-No. (ADN)</th>
<th>UN-No. (RID)</th>
</tr>
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<tbody>
<tr>
<td>3128</td>
<td>3128</td>
<td>3128</td>
<td>3128</td>
<td>3128</td>
</tr>
</tbody>
</table>

### 14.2. UN proper shipping name

<table>
<thead>
<tr>
<th>Proper Shipping Name (ADR)</th>
<th>Self-heating solid, toxic, organic, N.O.S.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper Shipping Name (IMDG)</td>
<td>Self-heating solid, toxic, organic, N.O.S.</td>
</tr>
<tr>
<td>Proper Shipping Name (IATA)</td>
<td>Self-heating solid, toxic, organic, N.O.S.</td>
</tr>
<tr>
<td>Proper Shipping Name (ADN)</td>
<td>Self-heating solid, toxic, organic, N.O.S.</td>
</tr>
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</table>

Transport document description:

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN 3128 SELF-HEATING SOLID, TOXIC, ORGANIC, N.O.S. (TRIS(TRIMETHYLSILYL METHYL)PHOSPHINE), 4.2 (6.1), II, (D/E)</td>
<td>UN 3128 SELF-HEATING SOLID, TOXIC, ORGANIC, N.O.S. (TRIS(TRIMETHYLSILYL METHYL)PHOSPHINE), 4.2 (6.1), II</td>
<td>UN 3128 Self-heating solid, toxic, organic, n.o.s. (TRIS(TRIMETHYLSILYL METHYL)PHOSPHINE), 4.2, II</td>
</tr>
</tbody>
</table>

### 14.3. Transport hazard class(es)

#### ADR

<table>
<thead>
<tr>
<th>Transport hazard class(es) (ADR)</th>
<th>4.2 (6.1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Danger labels (ADR)</td>
<td>4.2, 6.1</td>
</tr>
</tbody>
</table>

#### IMDG

<table>
<thead>
<tr>
<th>Transport hazard class(es) (IMDG)</th>
<th>4.2 (6.1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Danger labels (IMDG)</td>
<td>4.2, 6.1</td>
</tr>
</tbody>
</table>

#### IATA

<table>
<thead>
<tr>
<th>Transport hazard class(es) (IATA)</th>
<th>4.2 (6.1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard labels (IATA)</td>
<td>4.2, 6.1</td>
</tr>
</tbody>
</table>

#### ADN

<table>
<thead>
<tr>
<th>Transport hazard class(es) (ADN)</th>
<th>4.2 (6.1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Danger labels (ADN)</td>
<td>4.2, 6.1</td>
</tr>
</tbody>
</table>
TRIS(TRIMETHYLSILYL METHYL)PHOSPHINE
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RID
Transport hazard class(es) (RID) : 4.2 (6.1)
Danger labels (RID) : 4.2, 6.1

14.4. Packing group
Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

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) : ST2
  Special provisions (ADR) : 274
  Limited quantities (ADR) : 0
  Excepted quantities (ADR) : E2
  Packing instructions (ADR) : P410, IBC05
  Special provisions for carriage - Packages (ADR) : TP33
  Tank code (ADR) : SGAN
  Vehicle for tank carriage : AT
  Transport category (ADR) : 2
  Special provisions for carriage - Loading, unloading and handling (ADR) : CV28
  Hazard identification number (Kemler No.) : 46
  Orange plates : 46
  Tunnel restriction code (ADR) : D/E
  EAC code : 1W

- Transport by sea
  Special provisions (IMDG) : 76, 274
  Limited quantities (IMDG) : 0
  Excepted quantities (IMDG) : E2
  Packing instructions (IMDG) : P410
TRIS(TRIMETHYLSILYLMETHYL)PHOSPHINE
Safety Data Sheet

IBC packing instructions (IMDG) : IBC05
IBC special provisions (IMDG) : B2
Tank instructions (IMDG) : T3
Tank special provisions (IMDG) : TP33
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-J
Stowage category (IMDG) : C

- Air transport
PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Forbidden
PCA limited quantity max net quantity (IATA) : Forbidden
PCA packing instructions (IATA) : 466
PCA max net quantity (IATA) : 15kg
CAO packing instructions (IATA) : 470
CAO max net quantity (IATA) : 50kg
Special provisions (IATA) : A3
ERG code (IATA) : 4P

- Inland waterway transport
Classification code (ADN) : ST2
Special provisions (ADN) : 274, 802
Limited quantities (ADN) : 0
Excepted quantities (ADN) : E2
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 2

- Rail transport
Classification code (RID) : ST2
Special provisions (RID) : 274
Limited quantities (RID) : 0
Excepted quantities (RID) : E2
Packing instructions (RID) : P410, IBC05
Mixed packing provisions (RID) : MP14
Portable tank and bulk container instructions (RID) : T3
Portable tank and bulk container special provisions (RID) : TP33
Tank codes for RID tanks (RID) : SGAN
Transport category (RID) : 2
Special provisions for carriage – Packages (RID) : W1
Special provisions for carriage - Loading, unloading and handling (RID) : CW28
Colis express (express parcels) (RID) : CE10
Hazard identification number (RID) : 46

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
TRIS(TRIMETHYLSILYLMETHYL)PHOSPHINE is not on the REACH Candidate List
TRIS(TRIMETHYLSILYLMETHYL)PHOSPHINE is not on the REACH Annex XIV List
TRIS(TRIMETHYLSILYLMETHYL)PHOSPHINE 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.
15.1.2. National regulations

Germany
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands
SZW-lijs van kankerverwekkende stoffen : The substance is not listed
SZW-lijs 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:

| H252 | Self-heating in large quantities; may catch fire. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

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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