1. **IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

1.1 **Product identifiers**

Product name: (2-Bromovinyl)trimethylsilane

Product Number: 18697
Brand: Fluka
CAS-No.: 41309-43-7

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

Identified uses: Laboratory chemicals, Manufacture of substances

2. **HAZARDS IDENTIFICATION**

2.1 **Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
- Flammable liquids (Category 3)
- Skin irritation (Category 2)
- Eye irritation (Category 2)
- Specific target organ toxicity - single exposure (Category 3)

Classification according to EU Directives 67/548/EEC or 1999/45/EC
- Flammable. Irritating to eyes, respiratory system and skin.

2.2 **Label elements**

**Labelling according Regulation (EC) No 1272/2008 [CLP]**

**Pictogram**

- Signal word: Warning
- Hazard statement(s):
  - H226: Flammable liquid and vapour.
  - H315: Causes skin irritation.
  - H319: Causes serious eye irritation.
  - H335: May cause respiratory irritation.

- Precautionary statement(s):
  - P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
  - P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- Supplemental Hazard Statements: none

**According to European Directive 67/548/EEC as amended.**

- Hazard symbol(s): X

- R-phrase(s):
  - R10: Flammable.
  - R36/37/38: Irritating to eyes, respiratory system and skin.

- S-phrase(s):
  - S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

2.3 **Other hazards - none**

3. **COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 **Substances**

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synonyms</td>
<td>β -{(Trimethylsilyl)vinyl bromide} 1-Bromo-2-{(trimethylsilyl)ethylene}</td>
</tr>
<tr>
<td>Formula</td>
<td>C$<em>5$H$</em>{11}$BrSi</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>179.13 g/mol</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES
4.1 Description of first aid measures
   General advice
   Consult a physician. Show this safety data sheet to the doctor in attendance.
   If inhaled
   If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
   In case of skin contact
   Wash off with soap and plenty of water. Consult a physician.
   In case of eye contact
   Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
   If swallowed
   Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed
4.3 Indication of any immediate medical attention and special treatment needed
   no data available
5. FIREFIGHTING MEASURES
5.1 Extinguishing media
   Suitable extinguishing media
   For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.
5.2 Special hazards arising from the substance or mixture
   Carbon oxides, Hydrogen bromide gas, silicon oxides
5.3 Advice for firefighters
   Wear self contained breathing apparatus for fire fighting if necessary.
5.4 Further information
   Use water spray to cool unopened containers.
6. ACCIDENTAL RELEASE MEASURES
6.1 Personal precautions, protective equipment and emergency procedures
   Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
6.2 Environmental precautions
   Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
6.3 Methods and materials for containment and cleaning up
   Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).
6.4 Reference to other sections
   For disposal see section 13.
7. HANDLING AND STORAGE
7.1 Precautions for safe handling
   Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
7.2 Conditions for safe storage, including any incompatibilities
   Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
   Recommended storage temperature: 2 - 8 °C
   Store under inert gas. Light sensitive. Exposure to moisture.
7.3 Specific end uses
   no data available
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 Control parameters
Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection
Impervious clothing, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance
b) Odour
c) Odour Threshold
d) pH
e) Melting point/freezing point
f) Initial boiling point and boiling range
g) Flash point
h) Evaporation rate
i) Flammability (solid, gas)
j) Upper/lower flammability or explosive limits
k) Vapour pressure
l) Vapour density
m) Relative density
n) Water solubility
o) Partition coefficient: n-octanol/water
p) Autoignition temperature
q) Decomposition temperature
r) Viscosity
s) Explosive properties
t) Oxidizing properties

9.2 Other safety information

no data available

10. STABILITY AND REACTIVITY

no data available
10.1 Reactivity  
no data available

10.2 Chemical stability  
no data available

10.3 Possibility of hazardous reactions  
no data available

10.4 Conditions to avoid  
Heat, flames and sparks.

10.5 Incompatible materials  
Strong oxidizing agents

10.6 Hazardous decomposition products  
Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
   Acute toxicity  
no data available
   Skin corrosion/irritation  
no data available
   Serious eye damage/eye irritation  
no data available
   Respiratory or skin sensitization  
no data available
   Germ cell mutagenicity  
no data available
   Carcinogenicity  
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
   Reproductive toxicity  
no data available
   Specific target organ toxicity - single exposure  
Inhalation - May cause respiratory irritation.
   Specific target organ toxicity - repeated exposure  
no data available
   Aspiration hazard  
no data available
   Potential health effects
      Inhalation  
      May be harmful if inhaled. Causes respiratory tract irritation.
      Ingestion  
      May be harmful if swallowed.
      Skin  
      May be harmful if absorbed through skin. Causes skin irritation.
      Eyes  
      Causes serious eye irritation.
   Additional Information  
RTECS: Not available

12. ECOLOGICAL INFORMATION

12.1 Toxicity  
no data available

12.2 Persistence and degradability  
no data available

12.3 Bioaccumulative potential  
no data available

12.4 Mobility in soil  
no data available

12.5 Results of PBT and vPvB assessment  
no data available

12.6 Other adverse effects  
no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
14. **TRANSPORT INFORMATION**

14.1 UN number


14.2 UN proper shipping name

| ADR/RID: | FLAMMABLE LIQUID, N.O.S. ((2-Bromovinyl)trimethylsilane) |
| IMDG: | FLAMMABLE LIQUID, N.O.S. ((2-Bromovinyl)trimethylsilane) |
| IATA: | Flammable liquid, n.o.s. ((2-Bromovinyl)trimethylsilane) |

14.3 Transport hazard class(es)

| ADR/RID: | 3 | IMDG: 3 | IATA: 3 |

14.4 Packaging group

| ADR/RID: | III | IMDG: III | IATA: III |

14.5 Environmental hazards

| ADR/RID: | no | IMDG Marine pollutant: no | IATA: no |

14.6 Special precautions for user

| no data available |

15. **REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

| no data available |

15.2 Chemical Safety Assessment

| no data available |

16. **OTHER INFORMATION**

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information this document is based on the resent state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. guidechem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.