TCI EUROPE N.V.

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## SAFETY DATA SHEET

According to 1907/2006/EC, Article 31

| Re   | vision number: 1  |   | Revision date: 10/03/2018  |
|--|---|---|--|
| ECTION 1: Identification of the s                            | ubstance/mixture and of the cc  | mpany/undertaking                         |  |
| 1 Product identifiers  |   |   |  |
| Product name:  | Trimethoxy(propyl)silane<br>T1801   |   |  |
| Product code:  | 11001   |   |  |
| 2 Relevant identified uses of the sul<br>Identified uses:    | ostance or mixture and uses advise<br>Reagents.   | d against                                 |  |
| 3 Details of the supplier of the safet                       | / data sheet  |   |  |
| Supplier:  |   |   |  |
| TCI EUROPE N.V.<br>Boerenveldseweg 6                         |   |   |  |
| Haven 1063   |   |   |  |
| B-2070 Zwijndrecht   |   |   |  |
| Telephone: +32(0)3 735 07 0                                  |   |   |  |
| E-mail: sales-eu@tcichemical                                 | s.com   |   |  |
| 4 Emergency telephone number:                                | +32(0)70 245 245  |   |  |
| ECTION 2: Hazards identificatio                              |   |   |  |
| 1 Classification of the substance or<br>Flammable liquids    |   | egory 3                                   |  |
| Skin corrosion/irritation                                    |   | egory 2                                   |  |
| Serious eye damage/eye irritation                            |   | egory 2                                   |  |
| Signal word<br>Hazard statements<br>Precautionary statements | P280-Wear protective gloves, eye<br>P302+P352+P332+P313+P362+F<br>Get medical advice or attention. T<br>P305+P351+P338+P337+P313-IF   | n.<br>s/open flames/hot surfaces No smoki | water. If skin irritation occurs:<br>h it before reuse.<br>for several minutes. Remove |
|  | P370+P378-In case of fire: Use dr<br>P403+P235-Store in a well-ventila  | y chemical or dry sand to extinguish.     |  |
| 3 Other hazards  |   |   |  |
| Results of PBT and vPvB assessme                             |   |   |  |
| PBT:   | Not applicable  |   |  |
| vPvB:  | Not applicable  |   |  |
| ECTION 3: Composition/informa                                | tion on ingredients   |   |  |
| 1 Substances   |   |   |  |
| Components:  |   |   |  |
|  | . ,   |   |  |
|  |   |   |  |
|  |   |   |  |
| Synonyms:<br>Chemical Formula:                               | C <sub>6</sub> H <sub>16</sub> O <sub>3</sub> Si  |   |  |
|  |   |   |  |
| -1801  | Trimethoxy(propyl)  | silane                                    | Page 1 of s  |
| Components:<br>Percent:<br>CAS RN:<br>EC-No:<br>Synonyms:    | Trimethoxy(propyl)silane<br>>98.0%(GC)<br>1067-25-0<br>213-926-7<br>Propyltrimethoxysilane<br>C <sub>6</sub> H <sub>16</sub> O <sub>3</sub> Si<br><i>Trimethoxy(propyl)</i> S | silane                                    |  |

| SECTION 4: First aid measures  |   |               |
|--|---|---------------|
| 4.1 Description of first aid measures                                      |   |               |
| Inhalation:  | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical<br>advice/attention if you feel unwell.  |               |
| Skin contact:  | Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and w skin irritation or rash occurs: Get medical advice/attention.  | vater. If     |
| Eye contact:   | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to<br>Continue rinsing. If eye irritation persists: Get medical advice/attention.   | do.           |
| Ingestion:   | Get medical advice/attention if you feel unwell. Rinse mouth.   |               |
| Protection of first-aiders:  | A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.   |               |
| 4.2 Most important symptoms and effec<br>No data available                 | cts, both acute and delayed   |               |
| 4.3 Indication of any immediate medical No data available                  | l attention and special treatment needed  |               |
| SECTION 5: Firefighting measures   |   |               |
| 5.1 Extinguishing media  |   |               |
| Suitable extinguishing media:<br>Unsuitable extinguishing media:           | Dry chemical, foam, carbon dioxide.<br>Water (It may scatter and spread fire.)  |               |
| 5.2 Special hazards arising from the<br>substance or mixture               | Take care as it may decompose upon combustion or in high temperatures to generate poisonor<br>Carbon dioxide, Carbon monoxide, Silicon oxides   | us fume.      |
| 5.3 Advice for firefighters  | Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method a to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In ca fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sour safe to do so. When extinguishing fire, be sure to wear personal protective equipment   | ise of        |
| SECTION 6: Accidental release mea  | asures  |               |
| 6.1 Personal precautions, protective<br>equipment and emergency procedures | Use extra personal protective equipment (self-contained breathing apparatus). Keep people aw<br>and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should b<br>controlled around the leakage area by roping off, etc  |               |
| 6.2 Environmental precautions  | Prevent product from entering drains  |               |
| 6.3 Methods and materials for containment and cleaning up                  | Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight contain<br>case of large amount of spillage, contain a spill by bunding. Adhered or collected material shou<br>promptly disposed of, in accordance with appropriate laws and regulations. Remove all source<br>ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools a<br>explosion-proof equipment.                            | ld be<br>s of |
| 6.4 Reference to other sections  | For disposal see section 13.  |               |
| SECTION 7: Handling and storage  |   |               |
| 7.1 Precautions for safe handling  | Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfacesNo smokin measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local ex vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing. | n hands       |
| 7.2 Conditions for safe storage, including any incompatibilities           | Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store under inert<br>Protect from moisture. Store away from incompatible materials such as oxidizing agents.<br>Moisture-sensitive  | gas.          |
| 7.3 Specific end use(s)  | No further relevant information available.  |               |
| SECTION 8: Exposure controls/per   |   |               |
| 8.1 Control parameters   | No data available   |               |
| 8.2 Exposure controls  | Install a closed system or local exhaust. Also install safety shower and eye bath.  |               |
| Respiratory protection:  | Vapor respirator. Follow local and national regulations.  |               |
| Hand protection:   | Protective gloves.  |               |
| Eye protection:<br>Skin and body protection:                               | Safety glasses. A face-shield, if the situation requires.<br>Protective clothing. Protective boots, if the situation requires.  |               |
| T1001  | Trimethow (propyl) cilopa   | ge 2 of 5     |
| T1801  | Trimethoxy(propyl)silane Pa   | 35 - 0, 0     |

## SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical prope

| 9.1 Information on basic physical and chemical properties |                              |  |
|---|------------------------------|--|
| Physical state (20°C):                                    | Liquid                       |  |
| Form:   | Clear                        |  |
| Colour:   | Colorless - Almost colorless |  |
| Odour:  | No data available            |  |
| pH:   | No data available            |  |
| Melting point/freezing point:                             | No data available            |  |
| Boiling point/range:                                      | No data available            |  |
| Flash point:  | 34°C                         |  |
| Evaporation rate(Butyl Acetate=1):                        | No data available            |  |
| Flammability(solid, gas):                                 | No data available            |  |
| Flammability or explosive limits:                         |                              |  |
| Lower:  | No data available            |  |
| Upper:  | No data available            |  |
| Vapour pressure:  | No data available.           |  |
| Vapour density:   | No data available            |  |
| Relative density:   | 0.94                         |  |
| Solubility(ies):  |                              |  |
| [Water]   | No data available            |  |
| [Other solvents]  | No data available            |  |
| Partition coefficient:                                    | No data available            |  |
| n-octanol/water:  |                              |  |
| Autoignition temperature:                                 | No data available            |  |
| Decomposition temperature:                                | No data available            |  |
| Dynamic Viscosity:  | No data available            |  |
| Kinematic viscosity:                                      | No data available            |  |
|   |                              |  |
| 9.2 Other safety information                              | No data available            |  |
|   |                              |  |

| SECTION 10: Stability and reactivity    |  |  |
|---|--|--|
| 10.1 Reactivity                         | No data available                        |  |
| 10.2 Chemical stability                 | Stable under proper conditions.          |  |
| 10.3 Possibility of hazardous reactions | No special reactivity has been reported. |  |
| 10.4 Conditions to avoid                | Spark, Open flame, Static discharge      |  |
| 10.5 Incompatible materials             | Oxidizing agents                         |  |

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide, Silicon oxides

| SECTION 11: Toxicological information     |                   |
|---|-------------------|
| 11.1 Information on toxicological effects | 3                 |
| Acute Toxicity:                           | No data available |
| Skin corrosion/irritation:                | No data available |
| Serious eye damage/irritation:            | No data available |
| Respiratory or skin sensitization:        | No data available |
| Germ cell mutagenicity:                   | No data available |
| Carcinogenicity:                          |                   |
| IARC =                                    | No data available |
| NTP =                                     | No data available |
| Reproductive toxicity:                    | No data available |
| STOT-single exposure:                     | No data available |
| STOT-repeated exposure:                   | No data available |
| Aspiration hazard:                        | No data available |

| SECTION 12: Ecological informa<br>12.1 Toxicity   |  |  |
|---|--|--|
| Fish:   | No data available  |  |
| Crustacea:  | No data available  |  |
| Algae:  | No data available  |  |
| 12.2 Persistence and degradability  | No data available  |  |
| 2.3 Bioaccumulative potential   | No data available  |  |
| 2.4 Mobility in soil  |  |  |
| Log Pow:  | No data available  |  |
| Soil adsorption (Koc):  | No data available  |  |
| Henry's Law (PaM ³/mol):  | No data available  |  |
| 12.5 Results of PBT and vPvB asses  | sment  |  |
| PBT:  | Not applicable   |  |
| vPvB:   | Not applicable   |  |
|   | No data available  |  |
| 12.6 Other adverse effects  | No data available  |  |
| 12.6 Other adverse effects<br>SECTION 13: Disposal considera<br>13.1 Waste treatment methods  |  |  |
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14.6 Special precautions for user

Marine pollutant

No data available

SECTION 15: Regulatory information

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

 Water Hazard Classes (WGK):
 Class 1 - Low hazard to waters

 Substance of Very High Concern (SVHC) according to the
 Not listed

 REACH Regulations (EC) No.1907/2006
 Not listed

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

| SECTION 16: Other information |                 |
|-------------------------------|-----------------|
| Prepared by:                  | TCI EUROPE N.V. |
| Issue date:                   | 10/03/2018      |

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

End of Safety Data Sheet