

**SAFETY DATA SHEET**

According to 1907/2006/EC, Article 31

Revision number: 1

Revision date: 10/03/2018

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifiers**

**Product name:** TMS-PZ (=N-Trimethylsilylimidazole in Anhydrous Pyridine) [Trimethylsilylating Reagent, for wet or dry Sugars, Mono or Poly Saccharides]  
**Product code:** T0623

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

**Identified uses:** Reagents.

**1.3 Details of the supplier of the safety data sheet****Supplier:**

TCI EUROPE N.V.  
 Boerenveldseweg 6  
 Haven 1063  
 B-2070 Zwijndrecht  
 Telephone: +32(0)3 735 07 00  
 E-mail: sales-eu@tcichemicals.com

**1.4 Emergency telephone number:** +32(0)70 245 245

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

Flammable liquids	Category 2
Acute toxicity (Oral)	Category 4
Acute toxicity (Dermal)	Category 4
Acute toxicity (Inhalation)	Category 4
Skin corrosion/irritation	Category 1B
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity - Single exposure [Category 1]	Respiratory system, Nervous system
Specific target organ toxicity - Single exposure [Category 3]	Narcotic effects
Specific target organ toxicity - Repeated exposure [Category 1]	Liver, Nervous system, Kidney
Specific target organ toxicity - Repeated exposure [Category 2]	Blood system
Acute aquatic hazard	Category 1

**2.2 Label elements****Pictograms or hazard symbols****Signal word****Hazard statements****Danger**

H225-Highly flammable liquid and vapour.  
 H302+H312+H332-Harmful if swallowed, in contact with skin or if inhaled.  
 H314-Causes severe skin burns and eye damage.  
 H351-Suspected of causing cancer.  
 H361fd-Suspected of damaging fertility. Suspected of damaging the unborn child.  
 H370-Causes damage to organs : Respiratory system Nervous system  
 H372-Causes damage to organs through prolonged or repeated exposure : Liver Nervous system  
 Kidney

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**Precautionary statements**

H373-May cause damage to organs through prolonged or repeated exposure : Blood system  
H336-May cause drowsiness or dizziness.  
H400-Very toxic to aquatic life.  
P260-Do not breathe mist, vapours or spray.  
P280-Wear protective gloves, protective clothing, face protection.  
P301+P330+P331+P310-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.  
P303+P361+P353+P310+P363-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.  
P304+P340+P310-IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.  
P305+P351+P338+P310-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable  
**vPvB:** Not applicable

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

**3.2 Mixtures**

**Components:** TMS-PZ (=N-Trimethylsilylimidazole in Anhydrous Pyridine) [Trimethylsilylating Reagent, for wet or dry Sugars, Mono or Poly Saccharides]  
**Percent:** ....  
**CAS RN:** NA  
**Chemical Formula:** ----

**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. Immediately call a POISON CENTER or doctor/physician.  
**Skin contact:** Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.  
**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  
**Ingestion:** Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.  
**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 effects, both acute and delayed**

No data available

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media:** Dry chemical, foam, water spray, carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**

Carbon monoxide, carbon dioxide etc

**5.3 Advice for firefighters**

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so. When extinguishing fire, be sure to wear personal protective equipment

## SECTION 6: Accidental release measures

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc
<b>6.2 Environmental precautions</b>	Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned
<b>6.3 Methods and materials for containment and cleaning up</b>	Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.
<b>6.4 Reference to other sections</b>	For disposal see section 13.

## SECTION 7: Handling and storage

<b>7.1 Precautions for safe handling</b>	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 surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid all contact!
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Keep container tightly closed. Store in an explosion-proof refrigerator. Store under inert gas. Store locked up. Store away from incompatible materials such as oxidizing agents. Heat-sensitive, Air-sensitive
<b>7.3 Specific end use(s)</b>	No further relevant information available.

## SECTION 8: Exposure controls/personal protection

<b>8.1 Control parameters</b>	No data available (Pyridine) ACGIH TLV(TWA):1 ppm OSHA PEL(TWA):5 ppm
<b>8.2 Exposure controls</b>	Install a closed system or local exhaust. Also install safety shower and eye bath.
<b>Respiratory protection:</b>	Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
<b>Hand protection:</b>	Impervious gloves.
<b>Eye protection:</b>	Safety goggles. A face-shield, if the situation requires.
<b>Skin and body protection:</b>	Impervious protective clothing. Protective boots, if the situation requires.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless - Almost colorless
Odour:	Characteristic
pH:	No data available
Melting point/freezing point:	No data available (Pyridine) -42°C
Boiling point/range:	No data available (Pyridine) 115°C
Flash point:	No data available (Pyridine) 16°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:	No data available
Solubility(ies):	
[Water]	No data available
[Other solvents]	No data available
Partition coefficient: n-octanol/water:	No data available (Pyridine) 0.65
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, Strong acids
10.6 Hazardous decomposition products	Carbon monoxide, carbon dioxide etc

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

<b>Acute Toxicity:</b>	No data available (Pyridine) orl-rat LD50:891 mg/kg skn-rbt LD50:1121 mg/kg ihl-rat LC50:28500 mg/m <sup>3</sup> /1H ipr-rat LD50:866 mg/kg
<b>Skin corrosion/irritation:</b>	No data available (Pyridine) skn-rbt 500 mg/24H MLD
<b>Serious eye damage/irritation:</b>	No data available
<b>Respiratory or skin sensitization:</b>	No data available
<b>Germ cell mutagenicity:</b>	No data available (Pyridine) mmo-sat 6 mmol/L/2H (-S9) dns-mus-orl 700 mg/kg
<b>Carcinogenicity:</b>	
<b>IARC =</b>	No data available
<b>NTP =</b>	No data available (Pyridine) orl-rat TDLo:17472 mg/kg/104W-C IARC = 3
<b>Reproductive toxicity:</b>	No data available
<b>STOT-single exposure:</b>	No data available
<b>STOT-repeated exposure:</b>	No data available
<b>Aspiration hazard:</b>	No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

<b>Fish:</b>	No data available
<b>Crustacea:</b>	No data available
<b>Algae:</b>	No data available

12.2 Persistence and degradability No data available

12.3 Bioaccumulative potential No data available

### 12.4 Mobility in soil

<b>Log Pow:</b>	No data available
<b>Soil adsorption (Koc):</b>	No data available
<b>Henry's Law (PaM<sup>3</sup>/mol):</b>	No data available

### 12.5 Results of PBT and vPvB assessment

<b>PBT:</b>	Not applicable
<b>vPvB:</b>	Not applicable

12.6 Other adverse effects No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system but exert extra care in igniting as this material is highly flammable. Observe all federal, state and local regulations when disposing of the substance

**SECTION 14: Transport information**

<b>14.1 UN number</b>	2924
<b>14.2 UN proper shipping name</b>	
ADR/RID	Flammable liquid, corrosive, n.o.s
IMDG/IMO	Flammable liquid, corrosive, n.o.s
ICAO/IATA	Flammable liquid, corrosive, n.o.s
<b>14.3 Transport hazard class(es)</b>	
ADR/RID	3: Flammable liquid
Subsidiary risk:	8: Corrosive.
IMDG/IMO	3: Flammable liquid
Subsidiary risk:	8: Corrosive.
ICAO/IATA	3: Flammable liquid
Subsidiary risk:	8: Corrosive.
<b>14.4 Packaging group</b>	
ADR/RID	II
IMDG/IMO	II
ICAO/IATA	II
<b>14.5 Environmental hazards</b>	
Marine pollutant	Y
<b>14.6 Special precautions for user</b>	No data available

**SECTION 15: Regulatory information**

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
Substance of Very High Concern (SVHC) according to the 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 obtain, 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**

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