



Product Name:  
**TMAN** Multipurpose 100% Silicone Sealant  
Printed, 2004-09-21

### Material Safety Data Sheet

<b>1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY</b>
1.1 <b>Product name</b> <b>TMAN</b> MULTIPURPOSE 100% SILICONE SEALANT
1.2 <b>Manufacturer / Supplier</b> Selena Co S.A. Powstańców Śląskich 95 PL- 53-332 Wrocław Tel. +48 71 780 51 90 Fax. +48 71 780 51 91
1.3 <b>Generic description</b> Silicone elastomer <b>Physical Form</b> Paste <b>Color</b> Colorless <b>Odor</b> Acetic acid odor
1.4 <b>Department responsible for MSDS preparation</b> Product Marketing Dep. – Sealants e-mail: <a href="mailto:sealants@selena.pl">sealants@selena.pl</a> NFPA Profile Health 2 Flammability 1 Instability/Reactivity 0
1.5 <b>Emergency telephone</b> 610-330-6950

<b>2. OSHA HAZARDOUS COMPONENTS</b>									
<table border="1"><thead><tr><th>CAS Number</th><th>Wt %</th><th>Component name</th></tr></thead><tbody><tr><td>4253-34-3</td><td>1.0 – 5.0</td><td>Methyltriacetoxysilane</td></tr><tr><td>17689-77-9</td><td>1.0 – 5.0</td><td>Ethyltriacetoxysilane</td></tr></tbody></table>	CAS Number	Wt %	Component name	4253-34-3	1.0 – 5.0	Methyltriacetoxysilane	17689-77-9	1.0 – 5.0	Ethyltriacetoxysilane
CAS Number	Wt %	Component name							
4253-34-3	1.0 – 5.0	Methyltriacetoxysilane							
17689-77-9	1.0 – 5.0	Ethyltriacetoxysilane							
The above components are hazardous as defined in 29CFR 1910.1200									

<b>3. EFFECTS OF OVEREXPOSURE</b>
<b>Acute Effects</b>
<b>Eye</b> Direct contact may cause moderate irritation.
<b>Skin</b> May cause moderate irritation.
<b>Inhalation</b> Irritates respiratory passages very slightly.
<b>Oral</b> No significant effects expected from a single short-term exposure.
<b>Prolonged/Repeated Exposure Effects</b>
<b>Skin</b> No known applicable information
<b>Inhalation</b> No known applicable information
<b>Oral</b> No known applicable information
<b>Signs and Symptoms of Overexposure</b> No known applicable information

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**Medical Conditions Aggravated by Exposure**

No known applicable information.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

**4. FIRST AID MEASURES****4.1 Eyes**

Immediately flush with water for at least 15 minutes and get medical attention.

**4.2 Skin**

Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.

**4.3 Inhalation**

No first aid should be needed. If necessary move person to fresh air.

**4.4 Oral**

No first aid should be needed.

**4.5 Comments**

Treat according to person's condition and specifics of exposure.

**5. FIRE FIGHTING MEASURES****5.1 Flash point and method** N/A**5.2 Upper flammable limit in air** Not determined**Lower flammable limit in air** Not determined**5.3 Autoignition temperature** Not determined**5.4 Suitable Extinguishing Media**On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO<sub>2</sub>), dry chemical or water spray. Water can be used to cool fire exposed containers.**5.5 Fire Fighting Measures**

Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

**5.6 Unusual Fire Hazards**

None.

**5.7 Hazardous Decomposition Products.**

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Silicon dioxide.

**6. ACCIDENTAL RELEASE MEASURES****Containment/Clean up**

Observe all personal protection equipment recommendations described in Sections 5 and 8. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

Note: See section 8 for Personal Protective Equipment for Spills. Call 911 if additional information is required.

**7. HANDLING AND STORAGE**



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Use with adequate ventilation. Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc within exposure guidelines or use respiratory protection. Avoid eye contact. Avoid skin contact.

Use reasonable care and store away from oxidizing materials. Keep container closed and store away from water or moisture.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### 8.1 Component Exposure Limits

<u>CAS Number</u>	<u>Component Name</u>	<u>Exposure Limits</u>
4253-34-3	Methyltriacetoxysilane	See acetic acid comments
17689-77-9	Ethyltriacetoxysilane	See acetic acid comments

Acetic acid is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 10ppm and ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

### 8.2 Engineering Controls

- Local ventilation Recommended
- General ventilation Recommended.

### 8.3 Personal Protective Equipment for Routine Handling

- Eyes  
Use proper protection – safety glasses as a minimum
- Skin  
Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.
- Suitable Gloves  
Silver Shield(R). 4H(R)
- Inhalation  
No respiratory protection should be needed.
- Suitable Respirator  
None should be needed.

### 8.4 Personal Protective Equipment for Spills

- Eyes  
Use proper protection – safety glasses as a minimum
- Skin  
Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.
- Inhalation/suitable Respirator  
No respiratory protection should be needed
- Precautionary Measures  
Avoid eye contact. Avoid skin contact. Use reasonable care.
- Comments  
Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc within exposure guidelines or use respiratory protection.  
When heated to temperatures above 150 degrees C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapour concentrations within the OSHA Permissible Exposure Limit for formaldehyde.



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Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical Form	Paste
Color	Colorless
Odour	Acetic acid odor
Specific Gravity @ 25°C	1.032
Viscosity	Not determined
Freezing/Melting Point	Not determined
Boiling Point	Not determined
Vapor Pressure @ 25°C	Not determined
Solubility in water	Not determined
pH	Not determined
Volatile Content	Not determined

**10. STABILITY AND REACTIVITY**

- 10.1 **Chemical stability**  
Stable
- 10.2 **Hazardous**  
Hazardous polymerization will not occur.
- 10.3 **Conditions to be avoided**  
None
- 10.4 **Materials to Avoid**  
Oxidizing material can cause a reaction. Water, moisture, or humid air can cause hazardous vapors to form as described in Section 8.

**11. TOXICOLOGICAL INFORMATION**

**Special Hazard Information on Components**  
N known applicable information.

**12. ECOLOGICAL INFORMATION**

- 12.1 **Environmental Fate and Distribution**  
Complete information is not yet available.
- 12.2 **Environmental Effects**  
Complete information is not yet available.
- 12.3 **Fate and Effects in Waste Water Treatment Plants**  
Complete information is not yet available.

Ecotoxicity Classification Criteria

Hazard Parameters (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	<=1	>1 and <100	>100
Acute Terrestrial Toxicity	<=100	>100 and <= 2000	>2000

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179,p.34,1993  
This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

**13. DISPOSAL CONSIDERATIONS**

**RCRA Hazard Class (40 CFR 261)**  
When decision is made to discard this material, as received, is it classified as a hazardous waste? No

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State or local laws may impose additional regulatory requirements regarding disposal.

**14. TRANSPORT INFORMATION****DOT Road Shipment Information (49 CFR 172.101)**

Not subjected to DOT

**Ocean Shipment (IMDG)**

Not subjected to IMDG code

**Air Shipment (IATA)**

Not subjected to IATA regulations.

**15. REGULATORY INFORMATION**

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200

TSCA Status: All Chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

**EPA SARA Title III Chemical Listings****Section 302 Extremely Hazardous Substances:**

None

**Section 304 CERCLA Hazardous Substances:**

None

**Section 312 Hazard Class:**

Acute: Yes

Chronic: No

Fire: No

Pressure: No

Reactive: No

**Section 313 Toxic Chemicals:**

None present or none present in regulated quantities.



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**Supplemental State Compliance Information:**

**California:**

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

None known.

**Massachusetts**

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>
7631-86-9	<=10.0	Silica, amorphous

**New Jersey**

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>
70131-67-8	<=87.0	Dimethyl siloxane, hydroxyl-terminated
7631-86-9	<=10.0	Silica, amorphous
4253-34-3	1.0 – 5.0	Methyltriacetoxysilane
17689-77-9	1.0 – 5.0	Ethyltriacetoxysilane

**Pennsylvania**

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>
70131-67-8	<=87.0	Dimethyl siloxane, hydroxyl-terminated
7631-86-9	<=10.0	Silica, amorphous

16.

**OTHER INFORMATION**

Prepared by: Selena Co SA

See the product label and information about application placed on

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