

Material Safety Data Sheet

Issue date: 2004-06-07 Revised date: 2006-01-06

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### **PRODUCT:** 100% HIGH TEMPERATUR E SILICONE

# Material Safety Data Sheet

(according to Directive 91/155/EC with further changes)

#### 1. Company and product identification

Product type:

100% HIGH TEMPERATUR E SILICONE

Product description:

Mixture of trimethoxysilanes, builders and

crosslinking agents

Supplier:

SELENA U.S.A. 400 Northampton Street, Easton, PA

18042

Phone number:

+610 330 6950

**Emergency phone number:** 

+1-800-424-9300

#### 2. Composition/information on ingredients

	Annex I Index	Ingredient name	Content by weight %	EC No	CAS No	Hazard classification
1.	-	triacetoxyethylsilane	Ł 2,6%	241-677-4	17689-77-9	[C]; R14-22-34*
2.	-	methylsilanetriyl triacetate	Ł 1,7%	224-221-9	4253-34-3	[C]; R1422-34*

<sup>\*</sup> hazard classification assignedon the basis of toxidy data (publications), this chemical substance is not classified in the Annex I of Directive 67/548/EEC

#### 3. Hazard identification

ATTENTION! The vapours are generated by the curing process of silicone. Additionally the product may cause sensitisation. Information about hazards should be placed on the silicone container label.

**Exposed places:** 

Skin, eyes, inhalation.

Main exposure:

Agent irritating eyes and mucous membrane.

#### 4. First aid measures

**Symptoms** 

Inhalation:

Vapours may irritate nose and upper airways.

Skin contact:

May cause local irritation, reddening, swelling.

**Eyes contact:** 

Vapours may irritate eyes. For its adhesive feature, the silicone

contact with eyes may cause their physical damage

Ingestion:

The silicone swallowing may cause digestive discomfort, could be

harmful

The medical conditions, that may deteriorate through the contact with product: not known.

Action

Inhalation:

Transfer patient out to the fresh air place, free of exposure. If

necessary seek medical advice

Skin contact:

Cured silicone may be removed by washing using soap and large

**Eyes contact:** 

water quantity. If irritation develops, you will apply delicate cream Bath eye immediately with a lot of water for at least 15 minutes.

Contact for medical aid immediately

Ingestion:

Contact for medical aid immediately

Caution:

In case of accident or if you feel unwell, necessary seek medical

advice immediately (show the label if it will be possible)

#### Fire-fighting measures 5.

Respective extinguishing

All standard fire-fighting media: dry chemical extinguisher, alcohol



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measures:

Special fire hazard when

product is exposed during the

resistance foam, CO<sub>2</sub>, water stream, sand. Cool down hot container. During combustion is generating carbon

dioxide, nitrogen oxide, dioxide silicon, calcium dioxide.

Special safety equipment used

in case of fire:

Fire-fighters should wear self contained breathing apparatus in addition to protective clothing. Be cautious using extinguishing

devices. Apply face guarding and respiratory mask.

Other instructions:

Cleaning methods:

6. Accidental release measures

Personal preventive measures:

Wear proper personal protective suit, used face guard. Avoid

contact with skin and eyes. Avoid vapours inhalation.

Natural environment protective

measures:

Cured product is not dangerous for environment.

Absorb mechanically and dispose of according to regulations.

Cured product may be removing mechanically. When silicone is uncured may be removed by concentrated cloth with ethyl

alcohol.

Others:

Not applicable

7. Handling and storage

Handling:

Avoid contact with skin and eyes. Use only in adequate ventilated area. Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the fingertips, nails

and cuticles. Keep away from children.

Storage:

Keep container tightly closed and store in well ventilated, dry and protected against moisture and from freezing storage place. Store

in temperature not higher than 25°C. Keep away from strong

oxidizing compounds.

8. Exposure control / personal protection

Exposure standards:

STEL - short term exposure limit (15 min exp. Limit)

Triacetoxy(ethyl)silane

15ppm

Methyltriacetoxysilane

15ppm

Acetic acid

15ppm

TWA - time-weighted average (8 hr exp. Limit)

Triacetoxy(ethyl)silane

10ppm

Methyltriacetoxysilane

10ppm 10ppm

**Engineering measures:** 

Acetic acid

Ensure there is sufficient ventilation of the area.

Respiration protection:

Respiration protection must be applied in poorly ventilated rooms. In case of long term staying in such a rooms, the compressed air

respiration mask should be applied.

Skin protection: Eyes protection:

Wear proper personal protective suit

Use the protective glasses.

Ingestion:

Using the sealant you should not eat, not drink, no smoke. Wash your hands and face every time after the work with chemical

substances.

9. Physical and chemical properties

Physical state:

**Paste** 



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Colour: Red

Odour: Characteristic acetic smell

pH: None applicable
Boiling point temperature: None applicable
Melting point temperature: None applicable
Flash point temperature: None applicable
Auto flammability: None applicable

**Explosion limits (propellant):** 

a) lower Not explosive

b) upper
Vapour pressure:
Vapour density (air=1):
Specific gravity:
Water solubility:
None applicable
None applicable
1,03 g/cm³ at 20°C
Insoluble.

Coefficient partition: None applicable (n-octane / water)

Viscosity:

Volatile Organic Compounds:

No data available

No available

(VOCs)

Other information: None

### 10. Stability and reactivity

Stability: Product chemically stable when is used in accordance with

instruction.

Conditions to be avoided:
Substances to be avoided:
Dangerous decomposition
products:

Stable in normal storing conditions. Avoid moisture.
Paste loading reacts with water. Avoid oxidizing agents.
Influence of moisture – educe small amount of acetic acid.
Paste loading – In case of fire is possible formation of toxic

gases as: carbon dioxide, small amount gaseous formaldehyde and other substances liberated during decomposition process

like dioxide silicon.

### 11. Toxicological information

**Acute toxicity:** LD<sub>50</sub> Oral Rat 2415 mg/kg (triacetoxyethylsilane)

LD<sub>50</sub> Oral Rat 2,060 mg/kg (methylsilanetriyl triacetate)

Skin contact: Can irritate on prolonged or repeated contact

Eye contact: Vapours released during curing may cause eye irritation Vapours released during curing may cause nose and throat

irritation

Irritating action: Vapours released during curing may cause eye irritation

Allergies: Prolonged contact with skin may cause an allergic reaction

Additional toxicological Vapours of formaldehyde are formed in temperature higher than 150°C in presence of oxygen. Formaldehyde is harmful by

inhalation and irritating to eyes and respiratory system at breathing concentration less than one part per million (1 ppm)

### 12. Ecological information

Mobility:

Biodegradation:

Chemical degradation:

No data available

None biodegradable.

No data available

Chemical degradation: No data available Bioaccumulation: No data available



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**Agility:** No data available Toxicity influence on organisms: No data available Toxicity in water: No data available Other toxicity: No data available

13. Disposal consideration

Waste code number:

Cured product

080404

Uncured product

080402

Package

150102

The user's attention is drawn to the possible existence of regional or national regulations regarding

disposal.

Product may be disposed of as normal waste. Do not allow product to reach ground water, water courses or sewage systems.

14. **Transport information** 

Land transport:

Marking not required

ADR/RID

Warning board:

Sea transport:

Marking not required

IMDG: 2

Technical name:

Air transport:

Marking not required

ICAO/IATA

Technical name:

#### 15. Regulatory information

The product is labelled and described at the document according to European Union directives: 67/548/EEC; 91/155/EEC; 2001/60/EC; 2001/59/EC; 2001/58/EC; 2000/33/EC; 1999/45/EC

Precautionary phrases:

Not required

Symbols:

Not required

Hazardous ingredients:

Not required

Risk phrases:

Not required

Safety phrases:

S2 Keep out of the reach of children.

S24/25 Avoid contact with skin and eyes S51 Use only in well-ventilated areas.

Air emission directive:

Class:

None applicable

Item No: Amount m%: None applicable

VbF:

A III

None applicable

Water hazard class:

WGK 1 (KBwS)

16. Other information

Risk phrases:

R14 Reacts violently with water. R22 Harmful if swallowed.

R34 Causes burns.



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## PRODUCT: 100% HIGH TEMPERATUR E SILICONE

Safety phrases: S1/2 Keep locked up and out of the reach of children

\$23 Do not breathe vapours

S24/25 Avoid contact with skin and eyes S51 Use only in well-ventilated areas.

See the product label and information about application placed on

Purpose of product:

Permanently flexible acetoxy - silicone sealant especially made for bonding, sealing, assembling by de cantation and protection covering of parts used in high temperatures: kiln tapes, chimney filters and heating units engines, power units, coolers and motor pumps, in heating systems, in pumps and motors, in kitchen machinery, smoke and ventilation ducts. It has excellent adhesion to most building materials including glass and glazed surfaces,

ceramics, enamel, impregnated and painted wood.

Directions of use: Clean, degrease and dry the surface. Mask areas adjacent to the

joints with a masking tape. Apply the material with sufficient pressure to the joint sides to ensure immediate adhesion. Smooth immediately with a wet spatula, jointer or finger. Remove masking

tape after smoothing.

## Contents of present card is compatible with EN ISO 110141 format

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