SiliXan M 500
Safety Data Sheet
according to Regulation (EC) No 1907/2006

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

SiliXan M 500
Product group: delivery product
Abbreviation: -
REACH Registration Number: -
CAS No: -
Index No: -
EC No: -

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

Use of the substance/mixture
BINDING AGENT

1.3. Details of the supplier of the safety data sheet

Manufacturer
Company name: NANO-X GMBH
Street: Theodor-Heuss-Str. 11a
Place: D-66130 Saarbrücken
Telephone: +49 (0)68195940 0
e-mail: sdb@nano-x.de
Contact person: Cathrin Anne Lang
Telephone: 0049 (0)68195940 45
e-mail: lang@nano-x.de
Internet: www.nano-x.de
Responsible Department: NANO-X GmbH
Telephone: +49 (0)6131 19240

1.4. Emergency telephone number:
bei Vergiftung: Giftinformationszentrum Mainz

2. Hazards identification

2.1. Classification of the substance or mixture

This mixture is not classified as hazardous according to Directive 1999/45/EC.

Classification according to Regulation (EC) No. 1272/2008 [CLP]
This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2. Label elements

Precautionary statements
P411 Store at temperatures not exceeding 40 °C/122 °F.
P410 Protect from sunlight.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Special labelling of certain mixtures
50 % of the mixture consists of ingredient(s) of unknown acute toxicity.
For use in industrial installations or professional treatment only.

2.3. Other hazards

Spontaneous exothermic polymerisation by storage over 60 °C or direct exposure to sun light.

3. Composition/information on ingredients
Chemical characterization
Methacrylfuctional organic-inorganic polymer, made of silanes with EINECS registration, as well as the hydrolysates and condensates thereof
Sum formula: -
Molecular weight: -

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Remove contaminated, saturated clothing immediately. Consult physician if problems persist. Do not give anything to unconscious over the mouth.

After inhalation
Provide fresh air. Consult physician if problems persist.

After contact with skin
Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion
Do not induce vomiting. Consult physician.

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
Foam, Dry extinguishing powder, Carbon dioxide (CO2), Water spray jet
Extinguishing media which must not be used for safety reasons
Full water jet

5.2. Special hazards arising from the substance or mixture
Product may polymerize at high temperature. The polymerisation is a highly exothermic reaction and may produce sufficient heat to cause thermal decomposition and/or a damage/rupture of the containers. Exposure to decomposition products may cause health hazard. The thermal decomposition may lead to the formation of irritating vapour or gases and/or fire. In case of fire may be liberated: Carbon monoxide, SiO2. In case of fire cool the containers with water spraying jet.

5.3. Advice for firefighters
In case of fire: Wear self-contained breathing apparatus. Full protective suit.

Additional information
Use water spray jet to protect personnel and to cool endangered containers. Vapours are heavier than air, spread along floors and form explosive mixtures with air. In case of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Keep away from unprotected people. Keep upwind. Provide adequate ventilation. Remove all sources
of ignition. Avoid contact with skin and eyes. Do not breathe gas/fumes/vapour/spray.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Ventilate affected area.

### 6.3. Methods and material for containment and cleaning up

Clean contaminated articles and floor according to the environmental legislation. Suitable material for taking up: Sand, Universal binder, Earth

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Advice on safe handling**

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Handle and open container with care. It is recommended to design all work processes always so that the following is excluded: Inhalation, Eye contact, Skin contact

Keep container tightly closed. Not inhale aerosole.

**Advice on protection against fire and explosion**

Keep away from: Heat, spark, flame.

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. When using do not eat, drink or smoke.

**Further information on handling**

Do not breathe gas/fumes/vapour/spray. Keep in a cool, well-ventilated place.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Requirements for storage rooms and vessels**

Keep only in the original container. Keep container tightly closed in a cool, well-ventilated place.

Provide earthing of containers, equipment, pumps and ventilation facilities.

**Advice on storage compatibility**

The storage class according to TRGS 510 should be indicated.

**Further information on storage conditions**

- Storage temperature: 5- 25 °C

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Additional advice on limit values**

No data available

#### 8.2. Exposure controls

**Occupational exposure controls**

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. In the immediate working surroundings there must be: Emergency shower installed, Provide eye shower and label its location conspicuously

**Protective and hygiene measures**

It is recommended to design all work processes always so that the following is excluded: Inhalation, Eye contact, Skin contact. Wash hands and face before breaks and after work and take a shower if necessary.

**Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Filtering device (full mask or mouthpiece) with filter: Manufacturer: 3M Art. Nr. 6800S (special filter for organic and inorganic gases and aerosols, 3M Art. Nr. ABEK1, particle filter for fine dust or dangerous aerosols 3M P3 Art.Nr. 5935)

**Hand protection**

Draw up and observe skin protection programme.
Tested protective gloves must be worn
Suitable material: NBR (Nitrile rubber) NBR (Nitrile rubber) Butyl caoutchouc (butyl rubber) FKM (fluoro rubber)

Eye protection
Wear eye/face protection.

Skin protection
lab coat

Environmental exposure controls
refer to Chap. 5 and 6

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: light beige
Odour: characteristic

Test method
pH-Value: Not ascertainable due to hydrolysis.

Changes in the physical state
Melting point: not determined
Initial boiling point and boiling range: > 35 °C
Flash point: > 100 °C DIN ISO 3679
Lower explosion limits: not determined
Upper explosion limits: not determined
Ignition temperature: not determined
Vapour pressure: not determined
Density: 1.2 g/cm³ DIN 12791 ISO 649
Water solubility: Not ascertainable due to hydrolysis.
Viscosity / dynamic: ~ 1415 mPa·s ISO 2555
Flow time: ~ 58 s (6 mm) 6 DIN 53211

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available

10.2. Chemical stability
stable at room temperature

10.3. Possibility of hazardous reactions
Formation of: Methanol

10.4. Conditions to avoid
Avoid temperatures over 60°C Avoid direct sun exposure. Avoid contact with heat sources.

10.5. Incompatible materials
Avoid initiators which are producing free radicals. Avoid the exposition with alkali and acids.

10.6. Hazardous decomposition products
In case of warming: Polymerisation

SECTION 11: Toxicological information
11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution
No data available

Acute toxicity
No data available

Specific effects in experiment on an animal
No data available

Irritation and corrosivity
No data available

Sensitising effects
No data available

Severe effects after repeated or prolonged exposure
No data available

Carcinogenic/mutagenic/toxic effects for reproduction
No data available

Empirical data on effects on humans
No data available

Further information
@0601.B060004

SECTION 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
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal number of waste from residues/unused products
080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances
Classified as hazardous waste.

Waste disposal number of used product
080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging
Contaminated packaging

Completely emptied packings can be re-cycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

Marine transport (IMDG)

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

Air transport (ICAO)

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

National regulatory information

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

27.08.2015 - Umstellung auf CLP-VO

Abbreviations and acronyms

www.wikipedia.com

Further Information

The information contained herein is based on the present state of our knowledge. It characterizes the product/composition with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. Any liability for damages, which occur in case of improper use or contact with the product/composition is excluded.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor’s safety data sheet.)