SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
SiliXan M 570

Further trade names
SiliXan Lab 1085

Product group: sample - prototype
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
COATING MATERIAL SCRATCH RESISTANT

1.3. Details of the supplier of the safety data sheet
Manufacturer
NANO-X GMBH
Theodor-Heuss-Str. 11a
D-66130 Saarbrücken
+49 (0)68195940 0
sdb@nano-x.de
Cathrin Anne Lang
lang@nano-x.de
www.nano-x.de
NANO-X GmbH
sdb@nano-x.de

1.4. Emergency telephone number:
bei Vergiftung:Giftinformationszentrum Mainz +49 (0)6131 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
This mixture is not classified as hazardous in accordance with Directive 1999/45/EC.

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

2.2. Label elements
Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Special labelling of certain mixtures
- For use in industrial installations or professional treatment only.
- Caution - substance not yet tested completely.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Remove contaminated, saturated clothing immediately. Move victim to fresh air. Instruct person to keep calm and warm. If unconscious place in recovery position and seek medical advice.

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
In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion
Consult physician. Induce vomiting when the affected person is not unconscious.

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
Symptoms: Headache, Dizziness, Nausea, Unconsciousness
Other hazards  Do not give fatty oils and milk. Observe risk of aspiration if vomiting occurs.
Gastric lavage after giving liquid paraffin with added animal charcoal.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Carbon dioxide (CO2), alcohol resistant foam, Dry extinguishing powder, Water spray jet

Extinguishing media which must not be used for safety reasons
High power water jet

5.2. Special hazards arising from the substance or mixture
In case of fire may be liberated: Carbon monoxide
The thermal decomposition may lead to the formation of irritating vapour or gases and/or fire.

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. 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
Use personal protective equipment as required. 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: Universal binder. Ventilate affected area.

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, Skin contact, Eye contact.

Advice on protection against fire and explosion
The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration. Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

Further information on handling
Keep in a cool, well-ventilated place.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Keep container tightly closed in a cool, well-ventilated place. Provide earthing of containers, equipment, pumps and ventilation facilities. Protect against: Heat, Frost, flame, Humidity.

Advice on storage compatibility
The storage class according to TRGS 510 should be indicated.

Further information on storage conditions
storage temperature: 5 - 25 °C

7.3. Specific end use(s)
No data available

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, Skin contact, Eye contact. Wash hands before breaks and after work.
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
Use protective skin cream before handling the product. The required protective gloves have to be specified by the glove material and the penetration time of the glove material depending on strength and duration of dermal exposition. Draw up and observe skin protection programme. Suitable material: NBR (Nitrile rubber), FKM (fluoro rubber) Butyl caoutchouc (butyl rubber)

Eye protection
Wear eye/face protection.

Skin protection
Wear 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

<table>
<thead>
<tr>
<th>Physical state:</th>
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<tbody>
<tr>
<td>Colour:</td>
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</tr>
<tr>
<td>Odour:</td>
<td>odourless</td>
</tr>
<tr>
<td>pH-Value:</td>
<td>not determined DIN 19261</td>
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<tr>
<td>Changes in the physical state</td>
<td></td>
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<tr>
<td>Melting point:</td>
<td>not determined</td>
</tr>
<tr>
<td>Initial boiling point and boiling range:</td>
<td>&gt; 35 °C</td>
</tr>
<tr>
<td>Flash point:</td>
<td>&gt; 80 °C DIN ISO 3679</td>
</tr>
<tr>
<td>Lower explosion limits:</td>
<td>not determined</td>
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<tr>
<td>Upper explosion limits:</td>
<td>not determined</td>
</tr>
<tr>
<td>Ignition temperature:</td>
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</tr>
<tr>
<td>Vapour pressure:</td>
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</tr>
<tr>
<td>Density:</td>
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</tr>
<tr>
<td>Water solubility:</td>
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</tr>
<tr>
<td>Viscosity / dynamic:</td>
<td>~ 5800 mPa·s ISO 2555</td>
</tr>
<tr>
<td>Flow time:</td>
<td>&gt; 500 s (3 mm) 3 Din 53211</td>
</tr>
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</table>

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available

10.2. Chemical stability
No data available

10.3. Possibility of hazardous reactions
No data available

10.4. Conditions to avoid
Keep only in the original container at a temperature not exceeding 30 °C (to be specified by the manufacturer). Avoid contact with heat sources. Keep away from heat.
10.5. Incompatible materials
Keep away from strong acids, leachates, heavy metal salts and reducing materials.

10.6. Hazardous decomposition products
Thermal decomposition can lead to the escape of irritating gases and vapours. (Possible in traces: Formaldehyde > 150°C, Benzene > 180°C)

Further information
Even after use and until complete evaporation of the flammable components, there is still a danger of an explosive steam-air mixture forming.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicokinetics, 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

Further information
Protective measures vgl. 7, 8

SECTION 12: Ecological information

12.1. Toxicity
No data available

12.2. Persistence and degradability
Some of the components are poorly biodegradable. The product can be eliminated from water by abiotic processes, e.g. adsorption on activated sludge.

12.3. Bioaccumulative potential
No data available

12.4. Mobility in soil
Water: insoluble
Mobility in soil: Adsorption

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
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-TI/IATA-DGR)

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 restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

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

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.)