

Date of print: 2007-10-31
 Date of last alteration: 2007-10-31 - Version: English
 Art. -No., product name: **02949 / 02950** (and further Art.-No.) **supercoat nano**



7. Handling and storage

- 7.1 Handling:
 Precautions for safe handling: Avoid contact with eyes, skin and clothing.
 Precautions against fire and explosion: Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking. Cool endangered containers with water mist. Forms explosive mixtures with air, also in emptied, uncleaned containers.
- 7.2 Storage:
 Conditions for storage rooms and vessels: Store in a cool, dry and well-ventilated place, away from food-stuffs. Keep containers always tightly closed. Provide for sufficient ventilation.
 Advice for storage of incompatible materials: Keep away from combustible materials.
 Further information for storage: Keep at temperature not exceeding 25 °C / 77 °F. Keep away from humidity.

8 Exposure controls / personal protection

- 8.1 Further information for system design and engineering measures:
 Provide for sufficient ventilation/suction system.
- 8.2 Associate substance with specific control parameters such as limit values (Air limits according to EC-guideline 2000/39/EC and TRGS 900 respectively):
- | CAS-no. | Substance | mg/m ³ |
|-----------|-----------|--------------------------------|
| 108-88-3 | Toluene | 190 mg/m ³ = 50 ppm |
| 1330-20-7 | Xylene | 221 mg/m ³ = 50 ppm |
- 8.3 Personal protection equipment:
 General protection and hygiene measures: Take off immediately all contaminated clothing. Do not breathe vapours.
 Respiratory protection (filter A): In case of strong or prolonged exposure wear suitable respiratory equipment.
 Hand protection: Use protective gloves. Suitable are gloves of the following material (*permeation time ≥ 8 hours*): Fluoro carbon rubber – FKM (0.4 mm).
Unsuitable are gloves of the following materials: Nitrile rubber/Nitrile latex – NBR; Polychloroprene – CR; Natural rubber/Natural latex – NR; Butyl rubber – Butyl; Polyvinyl chloride - PVC.
 Textile or leather gloves are completely unsuitable.
 Eye protection: Wear protective goggles / face protection.

9 Physical and chemical properties

- 9.1 Appearance:
 Form: liquid
 Colour: colourless
 Odour: typical
- 9.2 Safety parameters: Method (67 / 548 / EC)
- | | | |
|--------------------------------|---|-----------|
| Change in physical state: | | |
| Boiling point..... : = | 109 °C / 228 °F | DIN 51356 |
| Flash point : = | 12 °C / 54 °F | DIN 51755 |
| Inflammability : | not available | |
| Ignition temperature : = | > 450 °C / 842 °F | DIN 51794 |
| Autoflammability..... : | not available | |
| Oxidising properties : | not available | |
| Explosive properties..... : | not available | |
| Explosion limits : = | lower: approx. 1.3 vol.-% • upper: approx. 7.8 vol.-% | |
| Vapour pressure : = | approx. 24 hPa at 20 °C/68 °F • 9 kPa at 50 °C/122 °F | |
| Density : = | approx. 0.94 g/cm ³ at 20 °C/68 °F | DIN 51757 |

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Solubility in water: = virtually insoluble
 pH-value.....: n.a.
 Distribution coefficient octanol / water: not available
 Viscosity: = approx. 200 mPa.s at 23 °C/73 °F Brookfield

9.3 Further information:
 Thermal decomposition: = > 150 °C/302 °F

10 Stability and reactivity

10.1 Conditions to avoid: No data known.
 10.2 Materials to avoid: Reacts violently with strong oxidising agents.
 10.3 Hazardous decomposition products: The following applies for the silicone content of the product:
 At a temperature of approx. 150 °C/302 °F a small amount of formaldehyde can be released by oxidative degradation.

11 Toxicological information

11.0 General information: The product may irritate the skin and the mucous membranes. Toxicological symptoms depend on the way and period of exposure and may vary: Headache, nausea, vomiting, giddiness, unconsciousness, haemolysis, hepatic and renal lesions. In case of aspiration pulmonary oedema and pneumonia may occur.
 11.1 Acute toxicity:
 Acute oral toxicity (LD₅₀):
 species rat 4 300 mg /kg
 origin: literature
 these data refer to the ingredient xylene.
 species rat 5 000 mg / kg
 origin literature
 these data refer to the ingredient toluene.

12 Ecological information

12.1 Information on elimination (persistence and degradability): No data known.
 12.2 Behaviour in environmental compartments: No data known.
 12.3 Ecotoxicological effects:
 Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition): Do not introduce large amounts into purification plants.
 12.4 Further ecological information: Do not lead into wastewater. Do not introduce into in-shore waters and earth.

13 Disposal considerations

13.1 Material: Recommendation: Dispose of according to regulations by incineration in a special waste incinerator. Observe the local byelaws.
 European Waste Catalogue Ref.No.: 07 02 99 (AVV).
 13.2 Contaminated packaging: Recommendation: Fully empty containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/national byelaws.

14 Transportation information

14.1 Land transportation ADR/RDI and GGVS/GGVE:
 GGVS/GGVE-class.....: 3 cl.-code F1
 ADR/RID-class.....: 3 cl.-code F1
 Transportation emergency card number: 3
 Warning board - Hazard No.: 33 Substance No.: 1866 PG: II

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Nomenclature..... : Resin solution
 (Vapour pressure at 50 °C/122 °F not more than 110 kPa)
 Further information..... : Flammable liquid
 Limited Quantities : LQ6 (5 L / 30 kg)

14.2 Inland navigation ADN/ADNR:
 Further information: No data available.

14.3 Transportation by sea IMDG/GGVsea:
 IMDG/GGVsea-class .. : 3 Label 3 UN-No.: 1866 PG: II
 EmS-No..... : F-E, S-E
 Marine pollutant : no
 Proper shipping name.. : Resin solution
 Technical name..... : Flammable liquid
 Flash point : 12 °C c.c.
 LTD. QTY..... : 5 L / 30 kg

14.4 Air transportation ICAO-TI and IATA-DGR transportation by air:
 ICAO/IATA-class..... : 3 UN-No.: 1866 PG: II Page: 205 (48 edition)
 Proper shipping name.. : Resin solution
 Technical name..... : Flammable liquid
 Packing instructions..... : PAC: 305 Max. net.: 5 L
 CAO: 307 Max. net.: 60 L
 Excepted Quantities..... : 30 mL / 500 mL
 LTD.QTY..... : 1 L / 30 kg (Y305)
 Air mail transportation...: not permitted

15 Regulatory information

- 15.1 Identification according to EC directives: Identification letters: **F Xn** Hazard indications: highly flammable, harmful
 Contains: Toluene, xylene.
 EC/R: 11-20/21-38 Highly flammable. Harmful by inhalation and in contact with skin.
 Irritating to skin.
 EC/S: 7/9-16-25-29-33 Keep container tightly closed and in a well-ventilated place. Keep away from sources of ignition – No smoking. Avoid contact with eyes. Do not empty into drains. Take precautionary measures against static discharges.
- 15.2 National regulations (Germany):
 Classification of possible adverse effects in the aquatic environment (Wassergefährdungsklasse):
 Class 2 (adverse effects in the aquatic environment).
 Classification according to VbF: A I

16 Other information

n.a. = not applicable n.s. = not subject to

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations.