

## Nanopol XP 20/0254

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EEC Material Safety Data Sheet  
according to EC directive 91/155/EEC

Printed: September 19, 2007  
Revised: September 19, 2007  
Replaces issue:

### 1. Company

**Supplier:** hanse chemie USA Inc.  
**Address:** 32 Palmetto Bay Road, Bldg. D Suite 8, Hilton Head Island, SC 29928  
Phone: (843) 842 97 80 Fax: (843)842 97 14  
**Emergency Telephone:** Chemtrec  
1- 800- 424-9300 (24 hours a day)

### 2. Information on Ingredients

**2.1 Chemical Name:** Composition of polyetherpolyole and amorphous silicondioxide

**2.2 Dangerous Ingredients:** none

**Substances:**  
**CAS No.:**  
**EINECS-No.:**  
**EEC-No.:**  
**Concentration:**  
**Symbol:**  
**Risk-phrases:**

### 3. Hazards Identification

Not hazardous for health and environment according to the EU law.

Based on our present-day knowledge we can not rule out that SiO<sub>2</sub> nanoparticles might have possible negative physiological effects. So it is recommended to avoid direct skin contact by wearing suitable gloves (nitrile or butyl rubber) while working with this product.

### 4. First Aid Measures

- 4.1 General notice:** Remove contaminated clothing immediately.
- 4.2 Inhalation:** Remove to fresh air. In case of irritations contact physician.
- 4.3 Skin contact:** Remove contaminated clothing, wash skin with plenty of cold to lukewarm water soap.
- 4.4 Eye contact:** Flush eyes immediately with water. Seek medical advice.
- 4.5 Ingestion:** Rinse mouth. Give medical carbon, do not induce vomiting. Seek medical advice immediately.
- 4.6 Advice to physician:** Treatment of overexposure should be focused on symptoms and conditions of the patient, as a special antidote does not exist.

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### 5. Fire Fighting Measures

- 5.1 Extinguishing media:** Suitable: foam, CO<sub>2</sub>, powder, water spray  
Non suitable: Compact jet of water
- 5.2 Unusual fire and explosion hazards:** In case of fire hazardous vapors may be formed.
- 5.3 Protective equipment:** Wear self-contained breathing apparatus and protective clothing.
- 5.4 Additional advice:**

### 6. Accidental Release Measures

- 6.1 Precautionary measure:** Usual precautions as with any chemicals.
- 6.2 Environmental protection measure:** Avoid discharge to natural waters or sewers.
- 6.3 Cleaning measure:** Cover with inert absorbent material and collect for disposal.
- 6.4 Additional advice:** Wear protective clothing.

### 7. Handling and Storage

- 7.1 Handling:** Avoid contact with eyes, skin and clothing. Usual precautions as with any chemical.
- 7.2 Storage:** Keep containers tightly closed in a well-ventilated area.
- 7.3 Storage conditions:** Cool, dark and dry.

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**8. Exposure Controls and Personal Protection**

**8.1 Exposure controls:** Note point 7

**8.2 Specific control parameter:**

**8.3 Personal protection:** Respiratory protection:  
Ventilation: Normal room ventilation  
Protective gloves: PVC or nitrile rubber gloves (0,48mm)  
Eye protection: Goggles recommended  
Other protective equipment: Local exhaust

**8.3 Additional advice:**

**9. Physical and Chemical Properties**

**9.1.1 Appearance:** liquid

**9.1.2 Color:** yellowish

**9.1.3 Odor:** none

**9.2 Typical values**

<b>Boiling point</b>	(1013 hPa)	> 300	°C
<b>Melting point</b>			°C
<b>Density</b>	(20°C)	approx. 1,4	g/ml
<b>Vapor pressure</b>	(20° C)	< 10	mbar
<b>Vapor density</b>	( °C)		mbar
<b>Viscosity</b>	(20°C)	middle viscous	mPa·s
<b>Solubility in water</b>	( 20°C)		g/l
<b>in</b>	( °C)		g/l
<b>pH</b>	( °C)		
<b>Solvent content</b>			
<b>Solid content</b>		100	%
<b>Flash point</b>		> 100	°C
<b>Ignition temperature</b>		355	°C
<b>Autoflammability</b>		no	
<b>Flammability limits</b>		Lower: 3,2 Vol%	Upper: 15,3 Vol%

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**10. Stability and Reactivity**

**Stability:** stable when used as recommended

**Hazardous reaction:** not known

**Materials to avoid:**

**Conditions to avoid:**

**Hazardous combustion or decomposition products:** no hazardous decomposition products if used as recommended

**Hazardous polymerization:**

**11. Toxicological Information**

**Acute toxicity:**  
LD50 (oral, rat): > 2000 mg/kg

**Primary effects:**  
Skin contact: no irritation  
Eye contact: slight irritation  
Sensitization: not known

**12. Ecological Information**

Avoid discharge to natural waters, sewers, and biological waste water treatment plants.

**13. Disposal Considerations**

**Disposal:** Collect for disposal. Dilute product with inactive solvent. Incineration recommended.

**Classification:** Incinerate according to appropriate regulations.

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<b>ADR/RID:</b>	<b>Hazard identification No.:</b>
<b>ICAO / IATA:</b>	<b>UN-No.:</b>
<b>IMDG-Code:</b>	<b>Packing group:</b>
<b>Marine pollutant</b>	<b>EmS:</b>

**Technical name:** no transport classification**15. Regulatory Information**EEC label name:  
Symbol: --

Risk phrases: --

Safety phrases: 37  
S 37: Wear suitable gloves.**16. Additional Advice**

Please see Technical Data Sheet also.