Status: 1/27/2009
Version: 1.4.0 / USA

1.) Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Trade name

Nanopox F 400

Company/undertaking identification

Address

hanse chemie USA Inc
32 Palmetto Bay Road, Bldg. D Suite 8
Hilton Head Island, SC 29928

Telephone no. (843) 842 97 80

Fax no. (843)842 97 14

Emergency telephone

CHEMTREC 1- 800- 424-9300 (24 hours a day)

2.) Hazards identification

Immediate hazards

General

WARNING
Combustible liquid and vapor.
May cause allergic skin reaction.
May cause skin and eye irritation.

Potential environmental effects

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Potential Health Effects

Eye

May cause eye irritation.

Skin

May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.
May cause skin irritation.

Inhalation

No other information is currently known.

Ingestion

No hazard in normal industrial use.

Cancer

None of the components present in this material at concentrations equal or greater than 0.1% is listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

3.) Composition / information on ingredients

Chemical characterization

Preparation, consisting of bisphenol A diglycidylether (BADGE) and amorphous, surface treated silicon dioxide

Hazardous ingredients

BIS(4-(2,3-EPOXYPROPOXY)PHENYL)PROPANE

CAS no.	1675-54-3				
Concentration	>	50	<	70	%-b.w.

Other information
Emergence of adverse physiological effects through nanoscale silicon dioxide particles cannot be excluded with the present state of knowledge. However we recommend to avoid direct skin contact and to wear during handling suitable protective gloves made of butyl rubber.

4.) First aid measures

General information
Remove contaminated clothing immediately and dispose of safely.

After inhalation
Ensure supply of fresh air. In case of persisting adverse effects, consult a physician.

After skin contact
When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

After eye contact
In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Eye treatment by an occulist.

After ingestion
Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor.

5.) Firefighting measures

Suitable extinguishing media
Foam; Carbon dioxide; Dry chemical extinguisher

Extinguishing media that must not be used for safety reasons
Full water jet

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases
In case of fires, hazardous combustion gases are formed
Carbon dioxide (CO2)
Carbon monoxide (CO)

Special protective equipment for firefighting
As in any fire, wear self-contained breathing apparatus pressure - demand, MSHA/ NIOSH (approved or equivalent) and full protective gear.

6.) Accidental release measures

Personal precautions
Refer to protective measures listed in sections 7 and 8. Keep away sources of ignition.

Environmental precautions
Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

Methods for cleaning up/taking up
Pick up with absorbent material (e.g., general-purpose binder).

7.) Handling and storage

Handling

Advice on safe handling
Observe the usual precautions for handling chemicals. Provide good ventilation of working area (local exhaust ventilation if necessary).

Advice on protection against fire and explosion
Keep away from sources of heat and ignition.

Storage

Requirements for storage rooms and vessels
Keep in original packaging, tightly closed.

Hints on storage assembly
Do not store together with:
Amines
Mercaptans
Lewis acids

Further information on storage conditions
Keep container tightly closed in a cool, well-ventilated place. Store in a dry place. Protect from light.

8.) Exposure controls / personal protection

Exposure limit values

N O N E

Personal protective equipment

Respiratory protection
If workplace exposure limits are exceeded, a respirations protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Hand protection
Glove permeation data does not exist for this material. The following glove(s) should be used for splash protection only.

Appropriate Material	butyl rubber

Eye protection
Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).

Skin protection
Chemistry-usual work clothes.

General protective and hygiene measures
Observe the usual precautions when handling chemicals. Do not eat, drink or smoke during work time. After worktime and during work intervals the affected skin areas must be thoroughly cleaned.

9.) Physical and chemical properties

General information

Form	liquid, viscous
Color	colorless
Odor	weak

Important health, safety and environmental information

Changes in physical state

Type	Boiling point		
Value	>	392	°F
Pressure	1013	hPa	

Flash point

Value	>	149	°F

Vapor pressure

Value	<	1.1	mbar
Reference temperature	68	°F	

Density				
Value		10.85	- 11.68	lbs/gallon
Reference temperature		68	°F	
Viscosity				
Type	dynamic			
Value	appr.		60000	mPa*s
Reference temperature		77	°F	
Solubility in water				
Remarks	insoluble			
Solids content				
Value			100	%

10.) Stability and reactivity

Conditions to avoid
Product polymerises exothermically with amines, mercaptanes and Lewis acids at ambient temperature.

Materials to avoid
Amines; Mercaptans; Lewis acid

Hazardous decomposition products
None, if handled according to order

Thermal decomposition

Remarks	No decomposition if used as prescribed.

11.) Toxicological information

Other information
Product specific toxicological data are not known.

12.) Ecological information

Other adverse effects
Do not allow to enter soil, waterways or waste water canal.
Is not allowed to be released into biological sewage treatment plants.
Ecological data are not available.

13.) Disposal considerations

Product
Dispose in accordance with federal, state and local regulations.

14.) Transport information

US DOT

Class	Combustible liquid
Packaging group	III
Label	None
UN/NA number	NA1993
Technical name	Combustible liquid, n.o.s.
Danger releasing substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
Remarks	According to 49 CFR, the material is subject to the requirements of the US DOT classification only when shipped in bulk packaging (maximum capacity greater than 450 L (119 gallons)).

Marine transport IMDG

Class	9
Packaging group	III
UN number	3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Danger releasing substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
EmS	F-A,S-F
Label	9

Air transport ICAO/IATA

Class	9
Packaging group	III
UN number	3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Danger releasing substance	bis-[4-(2,3-epoxipropoxi)phenyl]propane
Label	9

15.) Regulatory information

Regulations

US Federal Regulations

TSCA (Toxic Substances Control Act)
All of the components of this product are listed on the TSCA inventory.

Clean Water Act (CWA)
None of the ingredients is listed.

SARA Section 302 (RQ):
None of the ingredients is listed.

SARA HAZARD CATEGORY (Section 311/312)
Acute Health Hazards

SARA Section 313
None of the ingredients is listed.

HAPS (Hazardous Air Pollutants) according to Clean Air Act
None of the ingredients is listed.

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)
Following ingredients are Hazardous by definition of Hazard Communication Standard:
CAS-No. 1675-54-3

State Regulations

New Jersey Worker and Community Right to Know Act.
Following ingredients are listed:
CAS-No. 1675-54-3

California Proposition 65.
None of the ingredients is listed.

Pennsylvania HAZARDOUS SUBSTANCE LIST
None of the ingredients is listed.

Other international listings

IARC
None of the ingredients is listed in group 1, 2A or 2B.

Volatile organic compounds (VOC)
pound/gallon 0

16.) Other information

HMIS Classification

Health	1
Flammability :	2
Reactivity	1
PPE	G

NFPA Rating

Health	1
Fire Hazard	2
Reactivity	1

Other information

Abbreviations:
ACGIH American Conference of Governmental Hygienics
CAS Chemical Abstracts Service
HAPS Hazardous Air Pollutants
HMIS Hazardous Material Identifikation System
IARC International Agency for Research on Cancer
IDLH Immediate Dangerous to Life and Health
LEL Lower Explosion Limit
NTP National Toxicology Program
OEL Occupational Exposure Limit
OSHA Occupational Safety and Health Administration
PEL Permissible Exposure Limit
PPE Personal Protection Equipment
SARA Superfund Amendments and Reauthorization Act
STEL Short-Term Exposure Level (15 minutes)
TWA Time-Weighted Average (8 hours)
UEL Upper Explosion Limit
WEEL Workplace Environmental Exposure Level

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.