

SAFETY DATA SHEET (SDS-US)

NANOPOX F 700

VA-No.

Version

5.0 / US

Revision date

12/01/2014

Print Date

01/30/2015

Page

1 / 11



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

1.1. Product identifier

Trade name : NANOPOX F 700

Chemical Name : Preparation of epoxy novolac and amorphous silicon dioxide

1.2. Recommended use of the chemical and restrictions on use

Recommended use : Industrial Use

Non-recommended use(s) : None known.

1.3. Details of the supplier of the safety data sheet

Company : Evonik Corporation
Consumer Specialties
PO Box 1299
HOPEWELL VA 23860
USA

Telephone : +1 (0)804 541-8658

Telefax : +1 (0)804 541-2783

E-mail : productsafety-cs@evonik.com

Contact Canada

Company : Evonik Canada Inc.
PO Box 5057
3380 South Service Road
Burlington ON L7N 3J5
Canada

Telephone : +1 (0)905-336-3423

Telefax : +1 (0)905-332-5632

E-mail : productsafety-cs@evonik.com

1.4. Emergency telephone number

Emergency information : Non-Emergency Phone Number : (800) 732-5616
In case of emergency call CHEMTREC US: 1-800-424-9300, CHEMTREC WORLD:
1-703-527-3887.

24 HOUR EMERGENCY TELEPHONE NUMBERS:
CHEMTREC - US & CANADA toll free: +1-800-424-9300
CHEMTREC - MEXICO toll free: 01-800-681-9531
CHEMTREC GLOBAL - Collect calls accepted: +1-703-527-3887

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation 29CFR 1910.1200

Skin irritation	Category 2	H315
Chronic aquatic toxicity	Category 2	H411
Skin Sensitisation	Category 1	H317
Eye irritation	Category 2	H319
Flammable liquids	Category 4	H227

2.2. Label elements

SAFETY DATA SHEET (SDS-US)

NANOPOX F 700

VA-No.

Version

5.0 / US

Revision date

12/01/2014

Print Date

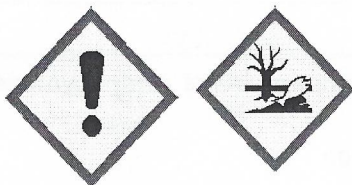
01/30/2015

Page

2 / 11



Symbol(s)



Signal word

: Warning

hazard statement

: H315 - Causes skin irritation.
 H317 - May cause an allergic skin reaction.
 H319 - Causes serious eye irritation.
 H411 - Toxic to aquatic life with long lasting effects.
 H227 - Combustible liquid

Precautionary
Statement
(Prevention)

: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 P262 - Do not get in eyes, on skin, or on clothing.
 P273 - Avoid release to the environment.
 P210d - Keep away from open flames / hot surfaces. - No smoking.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary
Statement
(Response)

: P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P391 - Collect spillage.
 P370 + P378 - In case of fire: Use alcohol-resistant foam, carbon dioxide or dry sand for extinction.

Precautionary
Statement (Storage)

: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

Precautionary
Statement (Disposal)

: P501 - Dispose of contents/container in accordance with local regulation.

2.3. Other hazards

none known.

3. Composition/information on ingredients**3.1. Substances**

-

3.2. Mixtures**Classification according to Regulation 29CFR 1910.1200**

Chemical Name	NJ Trade secrets CAS-No.	Concentration	Classification
Phenol, polymer with formaldehyde, glycidyl ether	- 28064-14-4	>= 30 % - < 50 %	H315, 2, Skin Irrit. H319, 2, Eye Irrit. H317, 1, Skin Sens. H411, 2, Aquatic Chronic
reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecularweight <= 700)	- 25068-38-6	>= 10 % - < 20 %	H315, 2, Skin Irrit. H319, 2, Eye Irrit. H317, 1, Skin Sens. H411, 2, Aquatic Chronic

Texts of H phrases, see in Chapter 16

4. First aid measures**4.1. Description of first aid measures**

General advice : Remove soiled or soaked clothing immediately

Inhalation : Ensure supply of fresh air.

SAFETY DATA SHEET (SDS-US)

NANOPOX F 700

VA-No.

Version

5.0 / US

Revision date

12/01/2014

Print Date

01/30/2015

Page

3 / 11



- In the event of symptoms seek medical advice.
- Skin contact : In case of contact with skin wash off with soap and water.
Consult a doctor if skin irritation persists.
- Eye contact : In case of contact with eyes rinse thoroughly with plenty of water. If symptoms persist, seek medical advice.
- Ingestion : Thoroughly clean the mouth with water
In the event of symptoms seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms : Skin irritation
Eye irritation

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media : Full water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released:

- Carbon monoxide, carbon dioxide, silicon dioxide

Under certain conditions of combustion traces of other toxic substances cannot be excluded

5.3. Advice for firefighters

Do not inhale explosion and/or combustion gases

Use self-contained breathing apparatus

Collect contaminated firefighting water separately, must not be discharged into the drains.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Ensure adequate ventilation.

6.2. Environmental precautions

Do not allow to enter drains or waterways

Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder)

Dispose of absorbed material in accordance with the regulations.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Handling : no data available

SAFETY DATA SHEET (SDS-US)

NANOPOX F 700

VA-No.

Version 5.0 / US
Revision date 12/01/2014
Print Date 01/30/2015
Page 4 / 11



Hygiene measures : Wash hands before breaks and after work.
Do not eat, drink or smoke when working.
Remove soiled or soaked clothing immediately.
Use barrier skin cream.

General protective measures : Avoid contact with eyes and skin
Do not inhale gases/vapours/aerosols.

7.2. Conditions for safe storage, including any incompatibilities

Prevention of fire and explosion

Information : No special measures required.

Storage

Information : No special measures required.

Further information on storage conditions : Keep container tightly closed in a cool, well-ventilated place

Advice on common storage : Do not store together with amines.
Do not store together with mercaptans.
Do not store together with oxidizing agents.
Do not store with acids or alkalis

8. Exposure controls/personal protection

8.1. Control parameters

Contains no substances with occupational exposure limit values (US)

8.2. Exposure controls

Engineering controls

Personal protective equipment

Eye protection : safety glasses

Hand protection : Glove material: gloves made of nitril (NBR)
Glove thickness: >= 0.4 mm

Body Protection : protective clothing

Respiratory protection : in case of formation of vapours/aerosols:
Short term: filter apparatus, Filter A-P2

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : liquid

Form : Liquid, highly viscous

Colour : yellowish

Odour : characteristic

Odour Threshold : not measured

pH : not measured

Melting point : not measured

Boiling point : not measured

SAFETY DATA SHEET (SDS-US)

NANOPOX F 700

VA-No.

Version
Revision date
Print Date
Page

5.0 / US
12/01/2014
01/30/2015
5 / 11



Flash point : > 149 °F

Evaporation rate : not measured

Flammability : no data available

Upper
Explosion/Ignition
Limit : not measured

Lower explosion limit : not measured

Vapour pressure : not measured

Relative vapour
density : not measured

Relative density : no data available

Solubility : not measured

Water solubility : insoluble

Partition coefficient
(n-octanol/water) : not measured

Autoignition
temperature : not measured

Thermal
decomposition : not measured

Viscosity, kinematic : no data available

Viscosity, dynamic : 25,000 mPa·s
(50 °C)

Explosive properties : not measured

Oxidising properties : not measured

9.2. Other information

Density : 1.4 - 1.5 g/cm³
(20 °C)

Metal corrosion : not measured

Ignition temperature : not measured

10. Stability and reactivity

10.1. Reactivity

see section "Possibility of hazardous reactions"

SAFETY DATA SHEET (SDS-US)

NANOPOX F 700

VA-No.

Version

5.0 / US

Revision date

12/01/2014

Print Date

01/30/2015

Page

6 / 11



10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Risk of polymerisation.

10.4. Conditions to avoid

None with proper storage and handling.

10.5. Incompatible materials

alkalines
amines
alkalines
Mercaptans, Lewis acids
oxidizing agents
acids

10.6. Hazardous decomposition products

None with proper storage and handling.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : no data available

Acute toxicity (inhalation) : no data available

Acute toxicity (dermal) : no data available

Irritation/corrosion of the skin : no data available

Serious eye damage/ eye irritation : no data available

Respiratory/skin sensitization : no data available

Repeated dose toxicity : no data available

CMR assessment

Carcinogenicity : no data available

Mutagenicity : no data available

Teratogenicity : no data available

Toxicity to reproduction : no data available

Specific Target Organ Toxicity - Single exposure : no data available

Specific Target Organ Toxicity - Repeated exposure : no data available

Aspiration hazard : No aspiration toxicity classification

Other information : Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.

SAFETY DATA SHEET (SDS-US)

NANOPOX F 700

VA-No.

Version

5.0 / US

Revision date

12/01/2014

Print Date

01/30/2015

Page

7 / 11



12. Ecological information

Ecotoxicology Assessment

Acute aquatic toxicity : no data available

Chronic aquatic toxicity : no data available

12.1. Toxicity

Aquaticity, fish : no data available

Aquaticity, invertebrates : no data available

Aquaticity, algae / aquatic plants : no data available

Toxicity in microorganisms : no data available

chronic toxicity in fish : no data available

Chronic toxicity in aquatic invertebrates : no data available

12.2. Persistence and degradability

Photodegradation : no data available

Biological degradability : no data available

12.3. Bioaccumulative potential

Bioaccumulation : no data available

12.4. Mobility in soil

Environmental distribution : no data available

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment : no data available

12.6. Other adverse effects

General Information : Do not allow to enter soil, waterways or waste water canal.
The product is considered to be a water pollutant (German law).

13. Disposal considerations

13.1. Waste treatment methods

SAFETY DATA SHEET (SDS-US)

NANOPOX F 700

VA-No.

Version

5.0 / US

Revision date

12/01/2014

Print Date

01/30/2015

Page

8 / 11



Product : In accordance with local authority regulations, take to special waste incineration plant

Contaminated packaging : If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

14. Transport information**D.O.T. Road/Rail**

- 14.1 UN number: UN 3082
 14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (isopropanol, Epoxy resin)
 14.3 Transport hazard class(es): 9
 14.4 Packing group: III
 14.5 Environmental hazards (Marine pollutant): Yes
 14.6 Special precautions for user: No

Air transport ICAO-TI/IATA-DGR

- 14.1. UN number: UN 3082
 14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)
 14.3. Transport hazard class(es): 9
 14.4. Packing group: III
 14.5. Environmental hazards: Yes
 14.6. Special precautions for user: Yes
 IATA-C: Environmentally hazardous
 IATA-P: Environmentally hazardous

Sea transport IMDG-Code/GGVSee (Germany)

- 14.1. UN number: UN 3082
 14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin, Epoxy resin)
 14.3. Transport hazard class(es): 9
 14.4. Packing group: III
 14.5. Environmental hazards (Marine pollutant): Yes
 14.6. Special precautions for user: Yes
 EmS: F-A,S-F
 Stowage category A
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: for transport approval see regulatory information

15. Regulatory informationCanada:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the (M)SDS contains all information required by the Controlled Products Regulation

Canada : WHMIS CLASSIFICATION
 Class D, Division 2B
 Class B, Division 3, Combustible Liquid
 This product contains component(s) that are listed on the WHMIS Ingredient Disclosure List.

SAFETY DATA SHEET (SDS-US)

NANOPOX F 700

VA-No.

Version

5.0 / US

Revision date

12/01/2014

Print Date

01/30/2015

Page

9 / 11



2-Propanol

67-63-0

US regulations:

SARA Title III Section : Fire Hazard
311/312 Hazard
Categories Acute Health Hazard

CERCLA : CAS 67-63-0 :

Other regulations : Special local regulations must be adhered to when using products containing irritating or corrosive substances.
BG Info Sheet M 050 "Activities Involving Hazardous Substances"
Precautions to be observed for storage of hazardous substances: TRGS 510
"Storage of Hazardous Substances in Movable Containers".

State Right to Know : MASS RTK: YES
• 2-Propanol (Isopropanol) (CAS-No.: 67-63-0)

RH IS RTK: YES
• 2-Propanol (Isopropanol) (CAS-No.: 67-63-0)

NJ RTK: YES
• 2-Propanol (Isopropanol) (CAS-No.: 67-63-0)

PENN RTK: YES
• 2-Propanol (Isopropanol) (CAS-No.: 67-63-0)

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

TSCA lists : TSCA 8D - Yes
• 2-Propanol (Isopropanol) (CAS-No.: 67-63-0)

HMIS Ratings Health: 2
Flammability: 2
Reactivity: 0
Personal Protection: X

Notification status

USA (TSCA) : listed/registered or exempted
Canada (DSL) : not listed/registered

16. Other information**List of references**

Other information : none
Revision date : 12/01/2014

Relevant H phrases from chapter 3

H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H319 : Causes serious eye irritation.

SAFETY DATA SHEET (SDS-US)

NANOPOX F 700

VA-No.

Version

5.0 / US

Revision date

12/01/2014

Print Date

01/30/2015

Page

10 / 11



H411

: Toxic to aquatic life with long lasting effects.

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SAFETY DATA SHEET (SDS-US)

NANOPOX F 700

VA-No.

Version

5.0 / US

Revision date

12/01/2014

Print Date

01/30/2015

Page

11 / 11

**Legend**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADNR	European agreement concerning the international carriage of dangerous goods by inland waterways (ADN)
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
Chem G	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization