

# SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

## 1. Identification

## Product identifier: NANOPOX F 631

## **Chemical name:**

Preparation of cyclo aliphatic epoxy resin and amorphous silicon dioxide

## Other means of identification

None.

## **Recommended restrictions**

**Recommended use:** Industrial use **Restrictions on use:** None known.

## Manufacturer/Importer/Distributor Information

Company Name	: Evonik Corporation 299 Jefferson Road Parsippany, NJ 07054 USA
Telephone	: +1 973 929 8000
Fax	: +1 973 929 8040
E-mail	: product-regulatory-services@evonik.com
Emergency telephone	
24-Hour Health Emergency	: +1 800 424 9300 (CHEMTREC - US & CANADA) 800 681 9531 (CHEMTREC MEXICO) +1 703 527 3887 (CHEMTREC WORLD)

## 2. Hazard(s) identification

Hazard Classification		
Physical Hazards		
Flammable liquids	Category 4	
Health Hazards		
Skin sensitizer	Category 1	
Environmental Hazards Acute hazards to the aquatic environment	Category 3	
Label Elements		
Hazard Symbol:		



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Signal Word:	Warning
Hazard Statement:	Combustible liquid. May cause an allergic skin reaction. Harmful to aquatic life.
Precautionary Statements	
Prevention:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.
Response:	IF ON SKIN: Wash with plenty of water/ If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). Wash contaminated clothing before reuse. In case of fire, use recommended extinguishing media for extinction.
Storage:	Store in a well-ventilated place. Keep cool.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC):	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment.

## 3. Composition/information on ingredients

### Chemical name:

Preparation of cyclo aliphatic epoxy resin and amorphous silicon dioxide

## Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
7-Oxabicyclo[4.1.0]heptane-3- carboxylic acid, 7-oxabicyclo[4.1.0]hept- 3-ylmethyl ester		2386-87-0	50 - <100%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

## 4. First-aid measures

## Description of necessary first-aid measures

General information:

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Remove soiled or soaked clothing immediately



Inhalation:	Ensure supply of fresh air. Seek medical advice if symptoms occur.	
Skin Contact:	In case of contact with skin wash off with soap and water. Seek medical advice if symptoms occur.	
Eye contact:	In case of contact with eyes rinse thoroughly with water. Seek medical advice if symptoms occur.	
Ingestion:	Thoroughly clean the mouth with water Seek medical advice if symptoms occur.	
Personal Protection for First- aid Responders:	Do not inhale explosion and/or combustion gases, Self-contained breathing apparatus.	
Most important symptoms/effects, acute and delayed		
Symptoms:	Up to now no symptoms are known.	
Hazards:	No data available.	
Indication of immediate medical attention and special treatment needed		

## Treatment: Treat symptomatically.

## 5. Fire-fighting measures

## Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	foam, carbon dioxide, dry powder, water spray.	
Unsuitable extinguishing media:	High volume water jet	
Specific hazards arising from the chemical:	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	
Special protective equipment and precautions for firefighters		
Special fire fighting procedures:	No specific precautions.	
Special protective equipment for fire-fighters:	Do not inhale explosion and/or combustion gases Self-contained breathing apparatus.	

## 6. Accidental release measures

prot	al precautions, ective equipment and rgency procedures:	Use personal protective equipment.	
	ds and material for ainment and cleaning	Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in accordance with the regulations.	1
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Environmental Precautions:	Do not allow to enter drains or waterways Do not discharge into the subsoil/soil.	
7. Handling and storage		
Handling		
Technical measures (e.g. Local and general ventilation):	No data available.	
Safe handling advice:	Provide good ventilation of working area (local exhaust ventilation if necessary).Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes.	
Contact avoidance measures:	No data available.	
Hygiene measures:	Remove soiled or soaked clothing immediately. Do not eat, drink or smoke when working. Wash hands before breaks and immediately after handling the product. Use barrier skin cream.	
Storage		
Safe storage conditions:	Keep container tightly closed in a cool, well-ventilated place.Do not store together with amines. Do not store together with acids. Do not store together with mercaptans. Do not store with alkalies	
Safe packaging materials:	No data available.	
Storage Temperature:	No data available.	

## 8. Exposure controls/personal protection

## Control Parameters

## **Occupational Exposure Limits**

None of the components have assigned exposure limits.

Appropriate Engineering Controls	No data available.
Individual protection measures,	such as personal protective equipment
Eye/face protection:	safety glasses
Skin Protection Hand Protection:	Additional Information: gloves made of butyl (IIR)
Skin and Body Protection:	protective clothing
Respiratory Protection:	in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2



## Hygiene measures:

Remove soiled or soaked clothing immediately. Do not eat, drink or smoke when working. Wash hands before breaks and immediately after handling the product. Use barrier skin cream.

## 9. Physical and chemical properties

Appearance	
Physical state:	liquid
Form:	Viscous Liquid
Color:	yellowish
Odor:	Slight
Odor Threshold:	not measured
pH:	not measured
Freezing point:	< -20 °C
Boiling Point:	> 200 °C
Flash Point:	> 65 °C > 149.00 °F
Evaporation Rate:	not measured
Flammability (solid, gas):	not measured
Explosive limit - upper:	not measured
Explosive limit - lower:	not measured
Vapor pressure:	< 0.1 hPa (20 °C)
Vapor density (air=1):	not measured
Density:	1.3 - 1.4 g/cm3 (20 °C)
Relative density:	not measured
Solubility in Water:	Insoluble
Solubility (other):	not measured
Partition coefficient (n-octanol/water):	not measured
Self Ignition Temperature:	not measured
Decomposition Temperature:	not measured
Kinematic viscosity:	not measured
Dynamic viscosity:	1,000 - 7,000 mPa.s (25 °C)
Other information	
Explosive properties:	not measured
Oxidizing properties:	not oxidizing
Minimum ignition temperature:	not measured
Metal Corrosion:	Does not corrode metal.

## 10. Stability and reactivity

Reactivity:		see section "Possibility of hazardous reactions"	
Chemical Stability:		The product is stable under normal conditions.	
Possibility o reactions		Risk of polymerisation.	
Conditions to avoid:		Product polymerizes at room temperature with amines, mercaptans and Lewis acids, which process generates heat.	Ł
Incompatible	e Materials:	Amines. Mercaptans. acids alkalines	
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Hazardous Decomposition	None with proper storage and handling.
Products:	

11. Toxicological informatio	n		
Information on likely routes of exposure Inhalation: Information on effects are given below.			
Skin Contact:	Information on effects are given below.		
Eye contact:	Information on effects are given below.		
Ingestion:	Information on effects are given below.		
Symptoms related to the phys	sical, chemical and toxicological characteristics		
Inhalation:	No data available.		
Skin Contact:	No data available.		
Eye contact:	No data available.		
Ingestion:	No data available.		
Information on toxicological e	effects		
Acute toxicity (list all possi	ible routes of exposure)		
Oral Product:	No data available. Not classified for acute toxicity based on available data.		
Dermal Product:	No data available. ATEmix : 3,333.33 mg/kg		
Inhalation Product:	No data available. Not classified for acute toxicity based on available data.		
Repeated dose toxicity Product:	No data available.		
Skin Corrosion/Irritation Product:	No data available.		
Serious Eye Damage/Eye Irrit Product:	tation No data available.		
Respiratory or Skin Sensitiza Product:	No data available.		
Carcinogenicity Product:	No data available.		

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- IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogens present or none present in regulated quantities
- US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogens present or none present in regulated quantities
- US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended: No carcinogens present or none present in regulated quantities

## **Germ Cell Mutagenicity**

In vitro Product:	No data available.	
Components: 7- Oxabicyclo[4.1.0]heptane -3-carboxylic acid, 7- oxabicyclo[4.1.0]hept-3- ylmethyl ester	Ames test (OECD 471): positive	
In vivo Product:	No data available.	
Components: 7- Oxabicyclo[4.1.0]heptane -3-carboxylic acid, 7- oxabicyclo[4.1.0]hept-3- ylmethyl ester	(OECD 488) Oral (Mouse, male)negative	
Reproductive toxicity Product:	No data available.	
Specific Target Organ Toxicity - Product:	Single Exposure No data available.	
Specific Target Organ Toxicity - Product:	Repeated Exposure No data available.	
Aspiration Hazard Product:	Not classified	
Other effects:	No data available.	

## 12. Ecological information

### **Ecotoxicity:**

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## Acute hazards to the aquatic environment:

Fish Product:

No data available.



**Aquatic Invertebrates** 

Aquatic Invertebrates Product:	No data available.
Chronic hazards to the aquati	c environment:
Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	No data available.
BOD/COD Ratio Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (BC Product:	CF) No data available.
Partition Coefficient n-octanol / v Product:	vater (log Kow) Log Kow: not measured
Mobility in soil:	No data available.
Components: 7- Oxabicyclo[4.1.0]heptane -3-carboxylic acid, 7- oxabicyclo[4.1.0]hept-3- ylmethyl ester	No data available.
Other adverse effects:	Do not allow to enter soil, waterways or waste water canal.
13. Disposal considerations	
Disposal methods:	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	

## Domestic regulation

 49 CFR

 Not regulated as a dangerous good

 Remarks
 : For USA only: This product is not regulated in packages < 119</td>



gallons / 450 L. In bulk packages this products is a Combustible Liquid, NA1993.

#### International Regulations

#### UNRTDG

Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

**IMDG-Code** Not regulated as a dangerous good

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## 15. Regulatory information

### US Federal Regulations

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

## US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended None present or none present in regulated quantities.

### CERCLA Hazardous Substance List (40 CFR 302.4):

#### **Chemical Identity**

RCRA HAZARDOUS WASTE NO. D001 METHANOL

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### **Hazard categories**

Flammable (gases, aerosols, liquids, or solids), Respiratory or Skin Sensitization, Hazards Not Otherwise Classified (HNOC)

# US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

### **US State Regulations**

### **US. California Proposition 65**

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**WARNING:** This product can expose you to chemicals including, methanolwhich is [are] known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

#### US. New Jersey Worker and Community Right-to-Know Act No ingredient regulated by NJ Right-to-Know Law present.

## US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

## US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

#### US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

## **Inventory Status:**

US TSCA Inventory: Canada DSL Inventory List: Included on Inventory. Included on Inventory.

This product contains a component that is regulated pursuant to a Significant New Activity Notice No. 15007. To be compliant with the Significant New Activity Notice, this product may only be used as component of an industrial resin into which the substance becomes incorporated into a solid matrix.

## 16.Other information, including date of preparation or last revision

## **HMIS Hazard ID**

Health	2	B - Safety Glasses & Gloves
Flammability	2	
Physical Hazards	0	
PERSONAL PROTECTION	В	]

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

Issue Date:	06/09/2020
Version #:	1.3
Further Information:	none
Revision Information	Changes since the last version are highlighted in the margin. This version replaces all previous versions.



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