

Revision Date: 06/09/2020

SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification

Product identifier: NANOPOX® C 620

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

Nutrition & Care PO Box 34628 Richmond, VA 23234

USA

Telephone : +1 804 727 0700

Fax : +1 804 727 0845

E-mail : product-regulatory-services@evonik.com

Emergency telephone number:

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)

Emergency 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 Category 3

environment

Label Elements



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Hazard Symbol:



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



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Description of necessary first-aid measures

General information: 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



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Personal precautions, protective equipment and emergency procedures: Use personal protective equipment.

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.

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

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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 measuredpH:not measuredFreezing point:< -20 °C</th>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:

Solubility in Water:

Solubility (other):

Partition coefficient (n-octanol/water):

Self Ignition Temperature:

Decomposition Temperature:

Not measured

not measured

not measured

not measured

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 of hazardous

reactions:

Risk of polymerisation.



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Conditions to avoid: Product polymerizes at room temperature with amines, mercaptans and

Lewis acids, which process generates heat.

Incompatible Materials: Amines. Mercaptans. acids alkalines

Hazardous Decomposition

Products:

None with proper storage and handling.

11. Toxicological information

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 physical, 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 effects

Acute toxicity (list all possible 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 Irritation

Product: No data available.

Respiratory or Skin Sensitization

Product: No data available.



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Carcinogenicity

Product: No data available.

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- Ames test (OECD 471): positive

Oxabicyclo[4.1.0]heptane -3-carboxylic acid, 7-oxabicyclo[4.1.0]hept-3-

ylmethyl ester

In vivo

Product: No data available.

Components:

7- (OECD 488) Oral (Mouse, male)negative

Oxabicyclo[4.1.0]heptane -3-carboxylic acid, 7-oxabicyclo[4.1.0]hept-3-

ylmethyl ester

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: Not classified

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:



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Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Chronic hazards to the aquatic 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 (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: not measured

Mobility in soil: No data available.

Components:

7- No data available.

Oxabicyclo[4.1.0]heptane -3-carboxylic acid, 7-oxabicyclo[4.1.0]hept-3-

ylmethyl ester

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



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49 CFR

Not regulated as a dangerous good

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

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.

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US State Regulations

US. California Proposition 65



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.

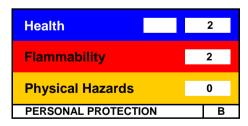
Inventory Status:

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



B - Safety Glasses & Gloves

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

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Version #: 1.3

Further Information: none

Revision InformationChanges since the last version are highlighted in the margin. This version

replaces all previous versions.



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