

Safety Data Sheet

According to EPA and OSHA Hazard Communication Standard (HCS)

Amended by 2020/878/

NexaNano Concrete and Stone

Version number: 3.0

Replaces version of: 10-26-2016

Revision: 03-14-2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade Name NexaNano Concrete and Stone Protection

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Coating, Professional Use, Consumer Uses

1.3 Details of the supplier of the safety data sheet

NexaNano

826 Expressway Lane

Spanish Fork, Ut84660

Telephone: 801-396-5458

e-mail: info@nexanano.com

Website: www.nexanano.com

1.4 Emergency telephone number

Emergency information service:

8013965458

This number is only available during the following office hours: Mon-Fri 09:00-17:00



SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to OSHA Hazard Communication Standard (HCS)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2 Label elements

Labelling according to OSHA Hazard Communication Standard (HCS)

Not required.

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section. This product does not meet the criteria for classification in any hazard class according to OSHA Hazard Communication Standard (HCS).

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

Following skin contact

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion

Rinse mouth with water (only if the person is conscious). Call a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed None.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water mist; Foam; Alcohol resistant foam; Dry extinguishing powder; Carbon dioxide (CO₂);
Co-ordinate firefighting measures to the fire surroundings.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

Self-contained breathing apparatus. Standard protective clothing for firefighters.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.). Collect spillage.

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8.

Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

Incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids.

Control of effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight. Frost.

Consideration of other advice

Store in a well-ventilated place. Keep container tightly closed.

- specific designs for storage rooms or vessels
- storage temperature Maximum storage temperature: 122 °F
- packaging compatibilities

Keep only in original container.

7.3 Specific end use(s)

There is no additional information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values No information available.

Relevant DNELs/DMELs/PNECs and other threshold levels

No data available.

8.2 Exposure controls

Appropriate engineering controls

General ventilation. Provide eyewash stations and safety showers at the workplace.

Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggle with side protection.

Skin protection

Protective clothing.

Hand protection

Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Chemical protection gloves are suitable, which are tested according to EN 374. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- type of material

Nitrile rubber, Butyl rubber

- breakthrough time of the glove material

Use gloves with a minimum breakthrough time of the glove material: >480 minutes (permeation: level 6).

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Full face mask/half mask/quarter mask (EN 136/140). Type: ABEK (combined filters against gases and vapours, colour code: Brown/Grey/Yellow/Green).

Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: liquid

Color: various

Odor: characteristic

Melting point/freezing point: 32 °F

Boiling point or initial boiling point and boiling range: 212 °F

Flammability: non-combustible

Lower and upper explosion limit LEL: UEL: not determined

Flash point: not applicable

Auto-ignition temperature: not relevant

Decomposition temperature: no data available

pH (value) 7.5

Kinematic viscosity 1 mm²/s at 68 °F

Dynamic viscosity 1 mPa s at 68 °F

Solubility:

Water solubility miscible in any proportion

Partition coefficient n-octanol/water (log value) this information is not available

Vapour pressure 2.332 Pa at 68 °F

Density and/or relative density:

Density 1,004 kg/l at 68 °F

Relative vapor density information on this property is not available

Particle characteristics: not relevant (liquid)

9.2 Other information

Information with regard to physical hazard classes hazard classes acc. to OSHA Hazard Communication Standard (HCS) (physical hazards): not

Other safety characteristics:

Volatile Organic Compounds 0 %

Evaporation rate 0,3 (n-butyl acetate = 1)

Miscibility Completely miscible with water.

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

UV-radiation/sunlight. Maximum temperature of processing: 122 °F.

10.5 Incompatible materials

Oxidisers.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in OSHA Hazard Communication Standard (HCS)

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to OSHA Hazard Communication Standard (HCS))

This mixture does not meet the criteria for classification in accordance

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

Other information

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 number or ID number not subject to transport regulations

14.2 proper shipping name not relevant

14.3 Transport hazard class(es) none

14.4 Packing group not assigned

14.5 Environmental hazards non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No
Dangerous substance/hazard categories Qualifying quantity (tonnes) for the application of lower and
upper-tier requirements: not assigned

Notes: Replaces version of: 2016-10-26 (1) Revision: 2024-03-14 Regulation on persistent organic
pollutants (POP)

None of the ingredients are listed.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

1.2 Relevant identified uses: Coating

Professional use Consumer use

2.3 Other hazards:

Relevant identified uses: Coating, Professional use, Consumer uses

There is no additional information. Other hazards

2.3 Results of PBT and vPvB assessment: Does not contain any substances that are assessed to be PBT or vPvB $\geq 0.1\%$.

2.3 Endocrine disrupting properties:

Results of PBT and vPvB assessment:

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$. Endocrine disrupting properties:

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

8.2 Material thickness:

Use gloves with a minimum material thickness: $\geq 0,35$ mm.

11.2 Endocrine disrupting properties:

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$. Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

12.5 Results of PBT and vPvB assessment: Does not contain any substances that are assessed to be PBT or vPvB $\geq 0.1\%$.

12.6 Endocrine disrupting properties:

Results of PBT and vPvB assessment:

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$. Endocrine disrupting properties:

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

16 Indication of changes (revised safety data sheet):

Complete revision of the safety data sheet.

16 Abbreviations and acronyms: change in the listing (table)

Abbreviations and Acronyms

Abbr. Descriptions of used abbreviations

DMEL Derived Minimal Effect Level

DNEL Derived No-Effect Level

ED Endocrine disruptor

LEL Lower explosion limit (LEL)

PBT Persistent, Bioaccumulative and Toxic

PNEC Predicted No-Effect Concentration

UEL Upper explosion limit (UEL)

vPvB Very Persistent and very Bioaccumulative

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product. For this product it is not legally required to provide an SDS under Article 31, because the product is not classified as hazardous. This document is prepared as a voluntary and additional service to provide general safety information.