

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

NANOBAS

| | | | |
|---------------|----------------|---------|-----|
| Creation date | 22nd June 2009 | Version | 5.0 |
| Revision date | 15th June 2022 | | |

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

1.1. Product identifier NANOBAS
Substance / mixture mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against
Mixture's intended use

Spray with antibacterial properties

The use descriptors

PW Widespread use by professional workers

Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Subscriber

| | |
|-----------------------------|--|
| Name or trade name | NOVATO |
| Address | Uralská 770/6, Praha, 160 00 Czech Republic |
| Identification number (CRN) | 62910370 |
| VAT Reg No | CZ62910370 |
| Phone | +420 233 339 688 |
| E-mail | petr.johanides@novato.cz |
| Web address | www.novato.cz |

Supplier

| | |
|-----------------------------|--|
| Name or trade name | NOVATO |
| Address | Uralská 770/6, Praha, 160 00 Czech Republic |
| Identification number (CRN) | 62910370 |
| VAT Reg No | CZ62910370 |
| Phone | +420 233 339 688 |
| E-mail | petr.johanides@novato.cz |
| Web address | www.novato.cz |

Competent person responsible for the safety data sheet

| | |
|--------|----------------|
| Name | ABITEC |
| E-mail | info@abitec.cz |

1.4. Emergency telephone number

European emergency number: 112

Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Aquatic Chronic 3, H412

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse physico-chemical effects

The mixture consists mainly of water. No physicochemical hazard is expected.

Most serious adverse effects on human health and the environment

The mixture does not contain components classified as hazardous to health. Avoid contact with eyes and eyes. Do not breathe aerosol. Avoid ingestion. Secure against confusion with beverages. The mixture contains a component that is very dangerous for the aquatic environment. The mixture is classified as harmful to the aquatic environment, with long-term effects. Prevent mixture from entering drains, soil, groundwater and surface water. Follow the instructions for use to avoid risks to humans and the environment.

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2.2. Label elements

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

2.3. Other hazards

Harmful to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note |
|---------------------------------|----------------|---------------------|---|------|
| CAS: 7732-18-5 EC: 231-791-2 | aqua | 99,995 | | |
| CAS: 7440-22-4 EC: 231-131-3 | silver | 0,005 | Aquatic Acute 1, H400 (M=1 000) Aquatic Chronic 1, H410 (M=100) Specific concentration limit: Aquatic Acute 1, H400: C ≥ 25 % Aquatic Chronic 1, H410: C ≥ 25 % | 1 |

Notes

1 Substance with a Union workplace exposure limit.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

In all cases of doubt, or when you feel unwell, seek medical advice and show this safety data sheet to the physician. In case of life-threatening conditions, perform resuscitation. Place unconscious person in stable position and do not give anything by mouth. Avoid cooling. Do not induce vomiting.

If inhaled

If inhaled, rinse mouth with water, breathe fresh air. Seek medical attention if respiratory tract irritation occurs and persists. If necessary (stop breathing or irregular breathing), give artificial respiration.

If on skin

Wipe off the mixture, wash with lukewarm water and soap, treat with regenerating cream. Seek medical attention if skin irritation occurs and persists.

If in eyes

If the affected person has contact lenses, remove them. Rinse opened eyes with plenty of clean, lukewarm water, especially under the eyelids. Seek medical attention.

If swallowed

Do not induce vomiting. Rinse mouth with water (only if the person is conscious). Seek medical attention and present this safety data sheet. Avoid inhalation of vomit in case of spontaneous vomiting.

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

If inhaled

The mixture is largely water, does not contain components classified as hazardous to health. Do not breathe aerosol.

If on skin

not available

If in eyes

The mixture is largely water, does not contain components classified as hazardous to health. Avoid contact with eyes.

If swallowed

The mixture is largely water, does not contain components classified as hazardous to health. Avoid ingestion.

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

Immediate medical attention is not required during normal use of the mixture.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Mixture is not flammable, fire extinguisher adapted to fire in the area.

Unsuitable extinguishing media

Not defined.

5.2. Special hazards arising from the substance or mixture

The mixture is not dangerous from the point of view of fire safety.

5.3. Advice for firefighters

Protective equipment adapt the nature of the fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Prevent unauthorized entry, close and insulate spill area. Ensure adequate ventilation, do not breathe aerosol. Avoid contact with skin and eyes - use personal protective equipment.

6.2. Environmental precautions

Observe the usual environmental precautions. Do not allow to enter drains, soil, surface or ground water. In the event of a major spill, inform the relevant government authorities and the flow or sewer manager.

6.3. Methods and material for containment and cleaning up

Prevent liquid leakage, cover with sorbent (sawdust, sand, diatomaceous earth, soil, universal sorbent, etc.), place the used sorbent in a closable waste container and dispose of according to section. 13. In the event of a large spill, drain the mixture. Wash contaminated area with water.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Follow the recommendations in the operating instructions. Protect eyes and skin, do not inhale spray mixture, use personal protective equipment according to dept. 8. Secure against confusion with beverages, avoid ingestion. Observe the applicable health and safety legislation. Follow the principles of hygiene when working with chemicals, do not eat, drink or smoke while working. Wash hands with warm soapy water before breaks, meals and after work.

7.2. Conditions for safe storage, including any incompatibilities

Store tightly closed in original containers in well-ventilated places. Keep out of reach of children. Store away from food, drink and animal feeding stuffs. Storage temperature: in the range of 5 - 25 ° C.

Storage temperature

5 - 25 ° C °C

7.3. Specific end use(s)

Follow the instructions in the operating instructions and technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Czech Republic

Government Regulation 195/2021 Coll.

| Substance name (component) | Type | Value | Conversion for ppm |
|----------------------------|-------|-----------------------|--------------------|
| silver (CAS: 7440-22-4) | PEL | 0,1 mg/m ³ | |
| | NPK-P | 0,3 mg/m ³ | |

European Union

Commission Directive 2000/39/EC

| Substance name (component) | Type | Value |
|----------------------------|-------------|-----------------------|
| silver (CAS: 7440-22-4) | OEL 8 hours | 0,1 mg/m ³ |

8.2. Exposure controls

Ensure adequate ventilation, or workspace extraction. Avoid contact with eyes and skin. Avoid contact with skin and eyes, do not inhale spray or vapors. Observe hygienic measures when working with chemicals. Do not eat, drink or smoke while working. Wash hands with lukewarm soap and water before breaks, meals and after work. Adapt personal protective equipment to the nature of the work.

Eye/face protection

Closed safety glasses.

Skin protection

Work clothes. Take off contaminated clothing and wash before reuse. Protective gloves (material eg PVC) - when choosing, follow the manufacturer's recommendations, the material must be impermeable and resistant to the components of the mixture. Test at a specific workplace before first use. Replace damaged gloves.

Respiratory protection

It is not necessary to observe the recommended operating instructions and adequate ventilation.

Thermal hazard

Not Specified. Avoid heating the mixture and exposure to elevated temperatures.

Environmental exposure controls

Observe the usual environmental precautions. Avoid leakage into sewers, underground and surface water and soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|-----------------------------------|
| Physical state | liquid |
| Colour | Clear, slightly milky. |
| Odour | Characteristic - green tea, lime. |
| Melting point/freezing point | 0 °C (freezes) |
| Boiling point or initial boiling point and boiling range | 100 °C |
| Flammability | The product is non-flammable. |
| Lower and upper explosion limit | data not available |
| Flash point | not applicable |
| Auto-ignition temperature | data not available |
| Decomposition temperature | data not available |
| pH | 5-9 (undiluted) |
| Kinematic viscosity | data not available |
| Solubility in water | soluble |
| Partition coefficient n-octanol/water (log value) | data not available |
| Vapour pressure | data not available |
| Density and/or relative density | data not available |
| Relative vapour density | data not available |
| Particle characteristics | data not available |

9.2. Other information

Density: 1000 kg/m³

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SECTION 10: Stability and reactivity

10.1. Reactivity

In normal conditions, the mixture does not show dangerous reactions.

10.2. Chemical stability

The mixture is stable under normal environmental conditions, storage and handling.

10.3. Possibility of hazardous reactions

The mixture does not show dangerous reactions if the instructions for use are followed. May react with strong acids to form exothermic reaction.

10.4. Conditions to avoid

Not determined.

10.5. Incompatible materials

They are not.

10.6. Hazardous decomposition products

Not developed under normal uses.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

The mixture meets the criteria for classification according to Regulation (EC) No. 1272/2008. The mixture is classified as dangerous according to Regulation (EC) No. 1272/2008, as amended.

Acute toxicity

The mixture is not classified as acutely toxic by any way of exposure.

Skin corrosion/irritation

Based on available data, the classification criteria are not met. The mixture is not intended for application to the skin.

Serious eye damage/irritation

Based on available data, the classification criteria are not met. Direct eye contact may cause mild irritation.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

The mixture is largely water, does not contain components classified as hazardous to health. Avoid contact with eyes. Do not breathe aerosol. Avoid ingestion. It does not have an adverse effect on human health if the instructions for use are followed. Animal testing has not been performed.

SECTION 12: Ecological information

12.1. Toxicity

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Acute toxicity

The ecotoxic effects of the mixture itself have not been assessed. The mixture is classified as dangerous for aquatic organisms due to the multiplication factor of the substance. Do not allow to enter drains, ground or surface water. silver

| Parameter | Value | Exposure time | Species | Environment | Source |
|------------------|-----------|---------------|-------------------------------|-------------|----------------------|
| LC ₅₀ | 1.2 µg/l | 96 hour | Fishes (Pimephales promelas) | | 95% dissolved silver |
| LC ₅₀ | 4.7 µg/l | 96 hour | Fishes (Pimephales promelas) | | Total ionic silver |
| EC ₅₀ | 0.22 µg/l | 48 hour | Invertebrates (Daphnia magna) | | 95% dissolved silver |

12.2. Persistence and degradability

Data not available.

12.3. Bioaccumulative potential

Not determined, bioaccumulation is unlikely.

12.4. Mobility in soil

The product is soluble and mobile in water and soil.

12.5. Results of PBT and vPvB assessment

Has not been done.

12.6. Endocrine disrupting properties

not available

12.7. Other adverse effects

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of as hazardous waste, hand over for disposal to a person authorized to handle hazardous substances or to a hazardous waste collection yard. Dispose of contaminated packaging in the same way as your own hazardous mixture. Do not empty or dispose of unused product with municipal waste. Dispose of mixture and packaging residues in accordance with local waste disposal regulations. Uncontaminated packaging can be recycled.

Waste management legislation

Waste Act No. 185/2001 Coll. as amended. Act No. 477/2001 Coll., On packaging, as amended.

Waste type code

16 03 03 inorganic wastes containing hazardous substances *
 16 10 03 aqueous concentrates containing hazardous substances *
 20 03 99 municipal wastes not otherwise specified

Packaging waste type code

15 01 02 plastic packaging

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

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14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Transport in packages that match the properties of the mixture. Observe the prescribed marking for cargo.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). Commission Delegated Regulation (EU) 2021/849 of 11 March 2021 amending, for the purposes of adapting to technical and scientific progress, Part 3 of Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labeling and packaging of substances and mixtures. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as ammended. Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals.

15.2. Chemical safety assessment

No chemical hazard assessment was performed for this mixture.

More information

This information only indicates the basic regulations listed in this Safety Data Sheet. Please note the possible existence of additional regulations supplementing these Regulations. We refer to all applicable national, international and local regulations and regulations.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

| | |
|------|---|
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Guidelines for safe handling used in the safety data sheet

| | |
|------|-----------------------------------|
| P273 | Avoid release to the environment. |
|------|-----------------------------------|

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1.

Key to abbreviations and acronyms used in the safety data sheet

| | |
|------------------|---|
| ADR | European agreement concerning the international carriage of dangerous goods by road |
| BCF | Bioconcentration Factor |
| CAS | Chemical Abstracts Service |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| EC ₅₀ | Concentration of a substance when it is affected 50% of the population |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EmS | Emergency plan |
| ES | Identification code for each substance listed in EINECS |
| EU | European Union |
| EuPCS | European Product Categorisation System |
| IATA | International Air Transport Association |

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| | |
|------------------|---|
| IBC | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| INCI | International Nomenclature of Cosmetic Ingredients |
| ISO | International Organization for Standardization |
| IUPAC | International Union of Pure and Applied Chemistry |
| LC ₅₀ | Lethal concentration of a substance in which it can be expected death of 50% of the population |
| log Kow | Octanol-water partition coefficient |
| MARPOL | International Convention for the Prevention of Pollution from Ships |
| NPK | Maximum admissible concentration |
| OEL | Occupational Exposure Limits |
| PBT | Persistent, Bioaccumulative and Toxic |
| PEL | Permissible Exposure Limit |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Agreement on the transport of dangerous goods by rail |
| UN | Four-figure identification number of the substance or article taken from the UN Model Regulations |
| UVCB | Substances of unknown or variable composition, complex reaction products or biological materials |
| VOC | Volatile organic compounds |
| vPvB | Very Persistent and very Bioaccumulative |
| Aquatic Acute | Hazardous to the aquatic environment |
| Aquatic Chronic | Hazardous to the aquatic environment (chronic) |

Training guidelines

According to § 103 and § 104 of Act No. 262/2006 Coll., The Labor Code, as amended. Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

The mixture should not be used for any purpose other than that for which it is intended (see point 1.2). Because the specific conditions of use of the substance are beyond the control of the supplier, it is the responsibility of the user to adapt the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and can not be considered as technical product information.

Information about data sources used to compile the Safety Data Sheet

Manufacturer data and toxicological databases.

The changes (which information has been added, deleted or modified)

Revision according to Commission Regulations (EU) 878/2020 and 849/2021.

Statement

The safety data sheet contains the data needed to ensure safety and health at work and environmental protection. These data correspond to the current state of knowledge and experience and are in accordance with applicable legal regulations. They can not be considered as a guarantee of the suitability and usability of the product for a specific application. The user is responsible for the treatment under existing laws and regulations.