

Safety Data Sheet

Safety Data Sheet in accordance with Regulation (EC) No. 1907/2006 (REACH)
Classification according to Regulation (EC) No 1272/2008 [CLP]

SECTION 1: Identification of Reagent and Manufacturer

Product Identifier

Product Codes 999000 (100µl) and 999001 (1.2ml)
Product Name SNPXPlex Identity Vigilance Reagent

Unique Formula Identification (UFI) Not applicable

Chemical Name Not applicable
Registration number REACH Not applicable

1.1 Identified Relevant Reagent Uses and Discouraged Uses

Identified Relevant Uses Use in search only

Use the descriptive code SU22 - Professional Uses: Public Domain (Administration, Education, Entertainment, Services, Artisans), PROC15 - Use as a Laboratory Reagent, PC21 - Laboratory Chemicals, SU24 - Scientific Research and Development

Discouraged Uses Unfit for consumption.

Information about the supplier of the safety data sheet

Maker BIOXTAL SARL
227 Route de la Chapelle
74540 Saint Félix
Switchboard: 04 50 10 18 44 / Mobile: 06 28 08 07 35
Email: support@bioxtal.com

Emergency number SNPXPlex Security On-Call : 04 50 10 18 44 / Mobile : 06 28 08 07 35
Working Hours : 8:00 to 20:00 – Monday to Saturday

SECTION 2: Identification of the reagent and the manufacturer

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Physical Hazards
Non-hazardous

Health Hazards

| | |
|---|------------|
| Specific Target Organ Toxicity - Repeated Exposures | Category 2 |
|---|------------|

Environmental Hazards

Revision Number: V1.0
Product codes: 99900 and 99901

Revision date: March 19, 2024
Product Name: Reagent SNPXPlex

Non-hazardous

Additional Information

Not applicable

Labelling Elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms

GHS08



Warning Statement

Careful

Hazard statements

H373 - Suspected Risk of Serious Organ Effects Following Repeated or Prolonged Exposures

EU-specific hazard statements

Not applicable

Precautionary statements

Prevention

P260 - Do not breathe dust/fumes/gases/mists/vapours/aerosols

Intervention

P314 - Seek medical attention if you feel unwell

Storage

Not applicable

Elimination

P501 - Dispose of Contents/Containers at a Certified Waste Disposal Plant

Other Hazards

Contains a known or suspected endocrine disruptor

SECTION 3: Composition/Component Information

Festschrift

SNPXPlex reagent is manufactured from a multiplex PCR mix, oligonucleotide primers, and ATE buffer.

| Chemical Name | CAS RN | No.-EINECS | % by weight | Number Record. REACH | Classification according to Regulation (EC) No 1272/2008 (CPL) |
|--|------------|------------|-------------|-----------------------|---|
| Nonylphenol ethoxylates | 9016-45-9 | 500-024-6 | <0.05 | - | Acute Tox. 4 - H302 Eye Dam. 1 - H318 Chronic Aquatic 2 - H411 |
| Ethylene glycol | 107-21-1 | - | 1,5-3% | - | Uncategorized |
| Glycerine | 56-81-5 | 200-289-5 | 1,5-3% | 01-2119471987-18-XXXX | Uncategorized |
| Azide de Sodium | 26628-22-8 | | <0.002% | | Fatal by ingestion, skin contact or inhalation H300+H310+H330 Eye irritation. H319 Highly toxic to aquatic organisms. H410 |
| Oligonucleotides & Modified Oligonucleotides | | | 0,024% | | |
| Tris (hydroxymethyl)aminomethane | 77-86-1 | 201-064-4 | 0,006% | | |
| Ethylenediaminetetraacetic acid, disodium salt dihydrate | 6381-92-6 | 613-386-6 | 0,0002% | | Eye Irrit.2 H319 Acute Tox 4 H332 STOT RE 2 H373 |

| Chemical Name | Specific Concentration Limit (SCL) | M-Factor | Estimation of acute toxicity |
|--|------------------------------------|----------|------------------------------|
| Nonylphenol ethoxylates | - | - | - |
| Ethylene glycol | - | - | - |
| Glycerine | - | - | - |
| Azide de Sodium | | | |
| Oligonucleotides & Modified Oligonucleotides | | | |
| Tris (hydroxymethyl)aminomethane | | | |
| Ethylenediaminetetraacetic acid, disodium salt dihydrate | | | |

SECTION 4: First Aid

Description of First Aid

| | |
|------------------------|--|
| Skin contact | Rinse skin with water. There is no need to seek immediate medical attention |
| Eye contact | Rinse carefully with water for several minutes. Remove contact lenses if the victim is wearing them and they can be easily removed. Continue to rinse. |
| Ingestion | Not expected to pose a significant risk if swallowed under the intended conditions of normal use. If you feel unwell, consult a doctor. |
| Inhalation | Not expected to pose a significant risk if inhaled under the intended conditions of normal use. If necessary, consult a physician. |
| Notes to Doctor | Treating Symptoms |

Main symptoms and effects, acute and delayed

H373 - Suspected Risk of Serious Organ Effects Following Repeated or Prolonged Exposures

Indication of any immediate medical care and special treatment required

Seek medical attention if you feel unwell.

HEADING 5: Fire-fighting measures

Extinguishing Means

| | |
|--|--|
| Appropriate extinguishing methods | Water jet. Carbon dioxide (CO2). Foam. Dry chemical agent. |
| Improper extinguishing means | No information available. |

Special Hazards Resulting from the Substance or Mixture

Not known

Tips for firefighters

Conventional chemical fire control procedures.

SECTION 6: Measures to be taken in the event of accidental dispersal

Personal Precautions, Protective Equipment and Emergency Procedures

Setting up appropriate ventilation

Always wear recommended personal protective equipment

Use personal protective equipment

See section 8 for more information

Precautions for the protection of the environment

Prevent product from entering the sewer system. The product must not contaminate groundwater.

Containment and Clean-up Methods and Equipment

Absorb with an inert absorbent material.

Reference to other headings

See section 8 for more information.

SECTION 7: Handling and storage

Precautions for safe handling

Use the required personal protective equipment. No specific handling instructions are required.

Conditions for safe storage, including possible incompatibilities

Store at -20°C

Use in a cool, well-ventilated area.

Store in properly labeled containers.

Specific end-use(s)

For search use only.

RUBRIQUE8: Exposure Controls/Personal Protection

Control Parameters

| Chemical Name | EU OEL (TWA) | EU OEL (STEL) | EU Skin Notation |
|--------------------------------------|--------------|---------------|------------------|
| Nonylphenol ethoxylates 9016-45-9 | None | None | None |
| Ethylene glycol 107-21-1 | None | None | None |
| Glycerine 56-81-5 | None | None | None |

| Chemical Name | Austria | Belgium (TWA) | Czech Republic |
|--------------------------------------|--------------------------------|----------------------|--|
| Nonylphenol ethoxylates 9016-45-9 | None | None | None |
| Ethylene glycol 107-21-1 | 10 ppm 26 mg/m ³ | None | 50 mg/m ³ TWA 100 mg/m ³ Ceiling Potential for cutaneous absorption |
| Glycerine 56-81-5 | None | 10 mg/m ³ | 10 mg/m ³ TWA 15 mg/m ³ Ceiling |

| Chemical Name | Denmark (TWA) | Finland OEL (TWA) | France OEL (VME) |
|--------------------------------------|--|-------------------|--------------------------------|
| Nonylphenol ethoxylates 9016-45-9 | None | None | None |
| Ethylene glycol 107-21-1 | 10 ppm 26 mg/m ³ 10 mg/m ³ | None | 20 ppm 52 mg/m ³ |
| Glycerine 56-81-5 | None | None | 10 mg/m ³ |

| Chemical Name | Germany OEL (TWA) | Ireland (TWA) | Italy OEL (TWA) |
|--------------------------------------|--|--|--------------------------------|
| Nonylphenol ethoxylates 9016-45-9 | None | None | None |
| Ethylene glycol 107-21-1 | 10 ppm exposure factor 2 26 mg/m ³ exposure factor 2 | 10 mg/m ³ 20 ppm 52 mg/m ³ | 20 ppm 52 mg/m ³ |
| Glycerine | 200 mg/m ³ exposure factor 2 | None | None |

| 56-81-5 | | | |
|--------------------------------------|---------------------|-----------------------|---|
| Chemical Name | Lithuania OEL (TWA) | Netherlands OEL (MAC) | Norway |
| Nonylphenol ethoxylates 9016-45-9 | None | None | None |
| Ethylene glycol 107-21-1 | 10 ppm 25 mg/m3 | 52 mg/m3 10 mg/m3 | 20 ppm TWA 52 mg/m3 TWA 104 mg/m3 STEL 40 ppm STEL |
| Glycerine 56-81-5 | None | None | None |

| Chemical Name | Poland | Portugal | Spain OEL (TWA) |
|--------------------------------------|--|---|--------------------|
| Nonylphenol ethoxylates 9016-45-9 | None | None | None |
| Ethylene glycol 107-21-1 | 15 mg/m3 TWA Skin Notation 50 mg/m3 STEL | 20 ppm TWA 52 mg/m3 TWA 40 ppm STEL 104 mg/m3 STEL skin - potential for cutaneous Exposure A4 - Not Classifiable as a Human Carcinogen 100 mg/m3 Ceiling | 20 ppm 52 mg/m3 |
| Glycerine 56-81-5 | 10 mg/m3 TWA | 10 mg/m3 TWA | 10 mg/m3 |

| Chemical Name | Sweden - Occupational Exposure Limits TLVs (LLVs) | Switzerland | United Kingdom |
|--------------------------------------|--|--|--|
| Nonylphenol ethoxylates 9016-45-9 | None | None | None |
| Ethylene glycol 107-21-1 | 10 ppm TLV NGV (limit value applies to the combined concentration of vapor and aerosol, aerosol and vapor); 25 mg/m3 TLV NGV (limit value applies to the combined concentration of vapor and aerosol, aerosol and vapor) | 20 ppm STEL 52 mg/m3 STEL 10 ppm TWA 26 mg/m3 TWA | 10 mg/m3 TWA (particulate); 20 ppm TWA (vapour); 52 mg/m3 TWA (vapour) |
| Glycerine 56-81-5 | None | 100 mg/m3 STEL 50 mg/m3 TWA | 10 mg/m3 TWA (mist) |

| | |
|---------------------------|---|
| Technical measures | Provide adequate ventilation, especially in confined areas. |
|---------------------------|---|

Exposure Controls

Personal Protective Equipment

| | |
|-----------------------------------|--|
| Respiratory protection | In case of insufficient ventilation, wear respirators and components that have been tested and approved to appropriate government standards. |
| Hand protection | Wear Appropriate Gloves Glove Material: Chemical Protective Gloves Compatible. |
| Eye protection | Waterproof safety glasses. |
| Skin & Body Protection | Wear appropriate protective clothing. |
| Hygiene measures | Handle in accordance with Good Industrial Health and Safety Practices. |

Exposure controls related to environmental protection

Revision Number: V1.0
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Product Name: Reagent SNPXplex

Prevent product from entering the sewer system. The product must not contaminate groundwater.

SECTION 9: Physical and chemical properties

Information on Essential Physical and Chemical Properties

| | | |
|---|------------|------------|
| Physical state | liquid | |
| Colour | No data | |
| Smell | No data | |
| Molar mass | No data | |
| Melting Point/Interval | °C No data | °F No data |
| Boiling Point/Interval | °C No data | °F No data |
| Flammability (solid, gas) | No data | |
| Lower Explosive Limit | No data | |
| Upper Explosive Limit | No data | |
| Flash Point | °C No data | °F No data |
| Temperature | °C No data | °F No data |
| Self-flammability | | |
| Decomposition Temperature | °C No data | °F No data |
| ph | No data | |
| Evaporation rate | No data | |
| Viscosity | No data | |
| Solubility | No data | |
| Partition coefficient: n-octanol/water | No data | |
| Vapor Pressure | No data | |
| Density | No data | |
| Relative Density | No data | |
| Vapor Density | No data | |
| Explosive Properties | No data | |
| Oxidizing properties | No data | |
| Particle characteristics | No data | |

Other information

Information on Physical Hazard Classes

No information available

Other safety features

No information available

SECTION 10: Stability and responsiveness

| | |
|---------------------------------------|--|
| Reactivity | None known. |
| Chemical Stability | Stable under normal conditions. |
| Possibility of reactions Dangerous | A dangerous reaction was not reported. |
| Conditions to avoid | No information available. |
| Incompatible materials | No known unsafe reactions under normal conditions of use |

Decomposition products
Dangerous

No data available.

SECTION 11: Toxicological information

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

| Chemical Name | Oral LD50 | LD50, dermal | Inhalation LC50 |
|-------------------------|--------------------|----------------------|-------------------|
| Nonylphenol ethoxylates | = 2590 mg/kg (Rat) | = 1780 µL/kg(Rabbit) | No data available |
| Ethylene glycol | = 4700 mg/kg (Rat) | = 10600 mg/kg(Rat) | >2.5mg/L(Rat) |
| Glycerine | = 12600 mg/kg Oral | > 10 g/kg(Rabbit) | >2.75mg/L(Rat) |

Main routes of exposure

| | |
|--|---|
| Skin corrosion/irritation | The data are conclusive but insufficient to obtain a classification |
| Severe eye damage/eye irritation | The data are conclusive but insufficient to obtain a classification |
| Respiratory or skin sensitization | The data are conclusive but insufficient to obtain a classification |
| Specific Target Organ Toxicity (STOT) – Single Exposure | The data are conclusive but insufficient to obtain a classification |
| Specific Target Organ Toxicity (STOT) – Repeated Exposure | Suspected risk of serious organ effects following repeated or prolonged exposures |
| Carcinogenicity | The data are conclusive but insufficient to obtain a classification |
| Mutagenicity on germ cells | The data are conclusive but insufficient to obtain a classification |
| Reproductive toxicity | The data are conclusive but insufficient to obtain a classification |

Information on other hazards

Endocrine disrupting properties

Contains a known or suspected endocrine disruptor

Other information

No information available

SECTION 12: Ecological information

Toxicity

The impact of this product on the environment has not been fully studied.

| Chemical Name | Toxicity to Algae | Toxicity to Daphnia and other aquatic invertebrates | Toxicity to fish | Microtox Data | log Pow |
|-------------------------|---|---|-------------------|-------------------|-------------------|
| Nonylphenol ethoxylates | No data Available | No data available | No data available | No data available | No data available |
| Ethylene glycol | Pseudokirchneriella subcapitata EC506500 - 13000 mg/L (96 h) | Daphnia magna EC50=46300 mg/L (48 h) | No data available | No data available | logPow-1.93 |
| Glycerine | No data Available | No data available | No data available | No data available | logPow-1.76 |

Persistence and degradability No information available.

Potential for Bioaccumulation No information available.

Mobility in the ground No information available.

Results of PBT and vPvB assessments

No information available.

Endocrine disrupting properties

Contains

| Chemical Name | EU - List of Candidate Endocrine Disruptors |
|-------------------------|---|
| Nonylphenol ethoxylates | Group III Chemical; Group III Chemical (9<EO<19); Group III Chemical (with EO>19); Group III Chemical (with EO<9) |

Other Adverse Effects

Contains a known or suspected endocrine disruptor.

SECTION 13: Disposal Considerations

Waste Treatment Methods

As far as possible, waste generation should be avoided or reduced to a minimum. Empty containers or linings may retain product residue. This product and its container must be disposed of in accordance with the approved disposal technique. Disposal of this product, its solutions, or any by-products must meet the requirements of all applicable local, state, or state/federal regulations. Do not dispose of waste down the drain. Do not dispose of garbage down the drain.

SECTION 14: Transport information**IATA / ADR / DOT-US / IMDG**

Unregulated within the meaning of transport regulations

UN Number or Identification Number: Not applicable**UN shipping name:** Not applicable**Transportation Hazard Class(es):** Not applicable**Packing Group:** Not applicable**Environmental Hazards**

Not applicable

Special precautions to be taken by the user

Not applicable

Bulk maritime transport under IMO instruments

Not applicable

SECTION 15: Regulatory information**Substance/mixture-specific safety, health and environmental regulations/legislation**

None.

Substances of Very High Concern

| Chemical Name | % by weight | EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances for Eventual Inclusion in Annex XIV |
|-------------------------|-------------|---|
| Nonylphenol ethoxylates | <0.1 | Reason for inclusion Endocrine disrupting properties, Article 57f - environment |

Substances subject to authorisation according to REACH, Annex XIV

None

Substances regulated under EC Code 1907/2006, Annex XVII

| Chemical Name | % by weight | EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances |
|-------------------------|-------------|--|
| Nonylphenol ethoxylates | <0.1 | Use restricted. See item 46[b]. Use restricted. See item 46a. |

Regulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals)

| Chemical Name | % by weight | EU - Export and Import Restrictions (649/2012) - Chemicals Subject to Export Notification Procedure | EU - Export and Import Restrictions (649/2012) - Chemicals and Articles Subject to Export Ban | EU - Export and Import Restrictions (649/2012) - Chemicals Subject to the PIC Procedure under the Rotterdam Convention | EU - Export and Import Restrictions (649/2012) - Chemicals Qualifying for PIC Notification |
|----------------------------|-------------|--|--|---|---|
| Ethoxylates Nonylphenol | <0.1 | Severe restriction as an industrial chemical for professional use; Banned as a pesticide in the group of plant protection products; Banned as other pesticide including biocides | | | Banned as a pesticide; Severe restriction as an Industrial Chemical |

Regulation (EU) 2019/1021 (Stockholm Convention – persistent organic pollutants)

None

EU-Substances that deplete the ozone layer (1005/2009)

None

German Water Pollution Classification (Wassergefährdungsklassen)

| Chemical Name | % by weight | Aquatic Hazard Class (WGK) |
|-------------------------|-------------|---|
| Nonylphenol ethoxylates | <0.1 | hazard class 3 - highly hazardous to water hazard class 2 - obviously hazardous to water |
| Ethylene glycol | 3-7 | hazard class 1 - slightly hazardous to water |
| Glycerine | 3-7 | hazard class 1 - slightly hazardous to water |

Other International Inventories

| Chemical Name | EINECS (Union European Union) | ELINCS (List European Union of Substances Chemical notified) | ENCS (Japan) | PICCS (Philippines) |
|-------------------------|-------------------------------|--|--------------|---------------------|
| Nonylphenol ethoxylates | - | - | Listed | Listed |
| Ethylene glycol | Listed | - | Listed | Listed |
| Glycerine | Listed | - | Listed | Listed |

| Chemical Name | AICS (Australia) | South Korea (KECL) | Canada (DSL) | NDSL |
|-------------------------|------------------|--------------------|--------------|------|
| Nonylphenol ethoxylates | Listed | Listed | Listed | - |
| Ethylene glycol | Listed | Listed | Listed | - |
| Glycerine | Listed | Listed | Listed | - |

Chemical Safety Assessment

No chemical safety assessment was conducted.

HEADING 16: Other information

Reason for revision: Creating the document from the MSDS of the kit components

Revision Number: V1.0

Revision date: 19/03/2024

References

- ECHA:<http://echa.europa.eu/>
- TOXNET:<http://toxnet.nlm.nih.gov/>
- eChemPortal:<http://www.echemportal.org/>
- LOLIdatabase:<https://www.chemadvisor.com/loli-database>

Classification and procedure used to establish the classification of mixtures in accordance with Regulation (EC) 1272/2008 [CLP]:

Uncategorized

Specific Target Organ Toxicity - Repeated Exposure

Category 2

Abbreviations and acronyms

TWA - Time-Weighted Average

OELs - Occupational Exposure Limit Values

STEL - Short Term Exposure Limit

LSD/NDSL - Canadian Domestic Substances List/Canadian Non-Domestic Substances List

KECL - Korean List of Existing and Assessed Chemicals

ENCS - Japan List of Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemicals

PICCS - Philippine Inventory of Chemical Substances and Products

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Chemical Inventory

EINECS/ELINCS - European Inventory of Existing Chemicals in Commerce/European List of Modified Chemicals

TSCA - U.S. Toxic Substances Control Act, Section 8(b), **CEPA** Inventory -

Canadian Environmental Protection Act **U.S. EPA** - U.S. Environmental Protection Agency

OSHA - U.S. Department of Labor's Federal Occupational Health and Safety Agency **IATA** - International Air Transport Association

DOT - Department of Transportation, United States **IMDG** -

International Maritime Dangerous Goods Code

ACGIH - American Conference of Governmental Industrial Hygienists

NIOSH - U.S. Institute of Occupational Health and Safety

AIHA - American Association of Industrial Hygienists, USA

HMIS - U.S. Department of Defense Hazardous Materials Information System

NTP - National Toxicology Program, USA

IARC - International Agency for Research on Cancer

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006

Revision Number: V1.0

Product codes: 99900 and 99901

Revision date: March 19, 2024

Product Name: Reagent SNPXplex

The foregoing information has been gathered through due diligence research and/or review and the recommendations are based on a careful application of professional judgment. This information should not be considered exhaustive and should be used for information purposes only. All products and mixtures may pose unknown risks and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company will not be liable for any damage or loss resulting from handling or contact with the product described herein.

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