

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 06-Sep-2023 Revision Number 1.2

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

1.1. Product identifier

Product Name Foresight Nuvia aPrime 4A (Columns, Plates, Robocolumn units)

Catalogue Number(s) 12007392, 12007393, 12007394, 12007395, 12007411

Nanoforms Not applicable

Pure substance/mixture Mixture

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

Recommended use Laboratory chemicals

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

<u>Corporate Headquarters</u> <u>Manufacturer</u>

Bio-Rad Laboratories Inc. 1000 Alfred Nobel Drive Hercules, CA 94547

USA

<u>Manutacturer</u>
Bio-Rad Laboratories. Life Science Group

2000 Alfred Nobel Drive Hercules, California 94547

USA

Legal Entity / Contact Address
Bio-Rad Laboratories Ltd

The Junction Station Road Watford, WD17 1ET

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86-87, Udyog Vihar Phase IV Gurgaon

122005 Haryana India

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For further information, please contact

**Technical Service** 00800 00246 723

Ireland: Techsupport.UK@bio-rad.com India: support.india@bio-rad.com

South Africa: cdg\_techsupport\_eemea@bio-rad.com

1.4. Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Ireland: 353-19014670

CHEMTREC India: 000-800-100-7141 CHEMTREC South Africa: 0-800-983-611

### **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flammable liquids Category 3

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# 2.2. Label elements



Signal word Warning

#### **Hazard statements**

H226 - Flammable liquid and vapour

#### Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P233 - Keep container tightly closed

P363 - Wash contaminated clothing before reuse

P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish

P403 + P235 - Store in a well-ventilated place. Keep cool

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

#### 2.3. Other hazards

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not applicable

### 3.2 Mixtures

| Chemical r | name | Weight-% | REACH registration | EC No (EU   | Classification according | Specific      | M-Factor | M-Factor    |
|------------|------|----------|--------------------|-------------|--------------------------|---------------|----------|-------------|
|            |      |          | number             | Index No)   | to Regulation (EC) No.   | concentration |          | (long-term) |
|            |      |          |                    |             | 1272/2008 [CLP]          | limit (SCL)   |          |             |
| Ethyl alco | ohol | 10 - 20  | No data available  | (603-002-00 | Flam. Liq. 2 (H225)      | -             | -        | -           |
| 64-17-     | -5   |          |                    | -5)         |                          |               |          |             |
|            |      |          |                    | 200-578-6   |                          |               |          |             |

### Full text of H- and EUH-phrases: see section 16

### **Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

|   | Chemical name | Oral LD50 mg/kg |                   | Inhalation LC50 - 4     | Inhalation LC50 - 4  | Inhalation LC50 - 4 |
|---|---------------|-----------------|-------------------|-------------------------|----------------------|---------------------|
|   |               |                 | mg/kg             | hour - dust/mist - mg/L | hour - vapour - mg/L | hour - gas - ppm    |
| Γ | Ethyl alcohol | 7060            | No data available | Inhalation LC50 Rat     | 116.9                | Inhalation LC50 Rat |
|   | 64-17-5       |                 |                   | 116.9 mg/L 4 h (males,  | 133.8                | 116.9 mg/L 4 h      |
|   |               |                 |                   | vapor, Source:          |                      | (males, vapor,      |
|   |               |                 |                   | ECHA_API); Inhalation   |                      | Source: ECHA_API);  |
|   |               |                 |                   | LC50 Rat 133.8 mg/L 4   |                      | Inhalation LC50 Rat |
|   |               |                 |                   | h (females, vapor,      |                      | 133.8 mg/L 4 h      |
|   |               |                 |                   | Source: ECHA_API)       |                      | (females, vapor,    |

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### Foresight Nuvia aPrime 4A (Columns, Plates, Robocolumn units)

| Chemical name | Oral LD50 mg/kg | Inhalation LC50 - 4<br>hour - dust/mist - mg/L | Inhalation LC50 - 4<br>hour - vapour - mg/L | Inhalation LC50 - 4<br>hour - gas - ppm |
|---------------|-----------------|--|---|---|
|               |                 | 116.9<br>133.8                                 |   | Source: ECHA_API)                       |

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

Inhalation Remove to fresh air.

**Eve contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes.

Ingestion Rinse mouth.

Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) Self-protection of the first aider

involved, take precautions to protect themselves and prevent spread of contamination. Use

personal protective equipment as required. See section 8 for more information.

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

No information available. **Symptoms** 

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

Note to doctors Treat symptomatically.

### **SECTION 5: Firefighting measures**

5.1. Extinguishing media

**Suitable Extinguishing Media** Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Do not scatter spilled material with high pressure water streams. Unsuitable extinguishing media

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### **SECTION 6: Accidental release measures**

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### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Use personal protective equipment as required. See Personal precautions

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the

product must be grounded. Do not touch or walk through spilled material.

Other information Ventilate the area.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if

safe to do so. Prevent product from entering drains.

### 6.3. Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A

> vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand

or other non-combustible material and transfer to containers for later disposal.

Take precautionary measures against static discharges. Dam up. Soak up with inert Methods for cleaning up

absorbent material. Pick up and transfer to properly labelled containers.

Clean contaminated objects and areas thoroughly observing environmental regulations. Prevention of secondary hazards

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information. Reference to other sections

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing

> vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers.

Use according to package label instructions.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, **Storage Conditions** 

sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store according to product and label

instructions.

#### 7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

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## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

### **Exposure Limits**

| Chemical name | European Uni  | on Austria                   | Belgium                         |         | Igaria                 | Croatia                      |
|---------------|---------------|------------------------------|---------------------------------|---------|------------------------|------------------------------|
| Ethyl alcohol | -             | TWA: 1000 ppm                | TWA: 1000 ppm                   | TWA: 10 | 000 mg/m <sup>3</sup>  | TWA: 1000 ppm                |
| 64-17-5       |               | TWA: 1900 mg/m <sup>3</sup>  | TWA: 1907 mg/m <sup>3</sup>     |         |                        | TWA: 1900 mg/m <sup>3</sup>  |
|               |               | STEL 2000 ppm                |                                 |         |                        |                              |
|               |               | STEL 3800 mg/m <sup>3</sup>  |                                 |         |                        |                              |
| Chemical name | Cyprus        | Czech Republic               | Denmark                         |         | tonia                  | Finland                      |
| Ethyl alcohol | -             | TWA: 1000 mg/m <sup>3</sup>  |                                 |         | 500 ppm                | TWA: 1000 ppm                |
| 64-17-5       |               | Ceiling: 3000 mg/m           |                                 |         | 000 mg/m <sup>3</sup>  | TWA: 1900 mg/m <sup>3</sup>  |
|               |               |                              | STEL: 2000 ppm                  |         | 1000 ppm               | STEL: 1300 ppm               |
|               |               |                              | STEL: 3800 mg/m <sup>3</sup>    | STEL: 1 | 900 mg/m <sup>3</sup>  | STEL: 2500 mg/m <sup>3</sup> |
| Chemical name | France        | Germany TRGS                 | Germany DFG                     | Gr      | eece                   | Hungary                      |
| Ethyl alcohol | TWA: 1000 pp  |                              | TWA: 200 ppm                    |         | 1000 ppm               | TWA: 1900 mg/m <sup>3</sup>  |
| 64-17-5       | TWA: 1900 mg  |                              | TWA: 380 mg/m <sup>3</sup>      | TWA: 19 | 900 mg/m <sup>3</sup>  | STEL: 3800 mg/m <sup>3</sup> |
|               | STEL: 5000 pp |                              | Peak: 800 ppm                   |         |                        |                              |
|               | STEL: 9500 mg |                              | Peak: 1520 mg/m <sup>3</sup>    |         |                        |                              |
| Chemical name | Ireland       | Italy MDLPS                  | Italy AIDII                     | _       | atvia                  | Lithuania                    |
| Ethyl alcohol | STEL: 1000 pp | om -                         | STEL: 1000 ppm                  | TWA: 10 | 000 mg/m <sup>3</sup>  | TWA: 500 ppm                 |
| 64-17-5       |               |                              | STEL: 1884 mg/m <sup>3</sup>    |         |                        | TWA: 1000 mg/m <sup>3</sup>  |
|               |               |                              |                                 |         |                        | STEL: 1000 ppm               |
|               |               |                              |                                 |         |                        | STEL: 1900 mg/m <sup>3</sup> |
| Chemical name | Luxembourg    | g Malta                      | Netherlands                     |         | rway                   | Poland                       |
| Ethyl alcohol | -             | -                            | TWA: 260 mg/m <sup>3</sup>      |         | 500 ppm                | TWA: 1900 mg/m <sup>3</sup>  |
| 64-17-5       |               |                              | STEL: 1900 mg/m <sup>3</sup>    |         | 150 mg/m <sup>3</sup>  |                              |
|               |               |                              | H*                              |         | 625 ppm                |                              |
|               |               |                              |                                 |         | 87.5 mg/m <sup>3</sup> |                              |
| Chemical name | Portugal      | Romania                      | Slovakia                        |         | venia                  | Spain                        |
| Ethyl alcohol | STEL: 1000 pp |                              | TWA: 500 ppm                    |         | 160 mg/m <sup>3</sup>  | STEL: 1000 ppm               |
| 64-17-5       |               | TWA: 1900 mg/m <sup>3</sup>  |                                 |         | 500 ppm                | STEL: 1910 mg/m <sup>3</sup> |
|               |               | STEL: 5000 ppm               | Ceiling: 1920 mg/m <sup>3</sup> |         | 1000 ppm               |                              |
|               |               | STEL: 9500 mg/m <sup>3</sup> |                                 | STEL: 1 | 920 mg/m <sup>3</sup>  |                              |
| Chemical name |               | Sweden                       | Switzerland                     |         |                        | ted Kingdom                  |
| Ethyl alcohol |               | NGV: 500 ppm                 | TWA: 500 ppm                    |         |                        | A: 1000 ppm                  |
| 64-17-5       |               | GV: 1000 mg/m <sup>3</sup>   | TWA: 960 mg/n                   |         |                        | A: 1920 mg/m <sup>3</sup>    |
|               |               | ande KGV: 1000 ppm           | STEL: 1000 ppi                  |         |                        | EL: 3000 ppm                 |
|               | Vägledai      | nde KGV: 1900 mg/m³          | STEL: 1920 mg/                  | m³      | STE                    | L: 5760 mg/m <sup>3</sup>    |

### Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)
Predicted No Effect Concentration
(PNEC)

No information available. No information available.

8.2. Exposure controls

Personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Wear suitable gloves. Impervious gloves.

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Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not

> be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

> > None known

No information available. **Environmental exposure controls** 

### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

**Physical state** Liquid

liquid - solid: mixture of **Appearance** 

Colour white Odour Odourless.

**Odour threshold** No information available

**Property** Values Remarks • Method Melting point / freezing point No data available None known

Boiling point / boiling range 78 °C

Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

38 °C Flash point

**Autoignition temperature** No data available None known **Decomposition temperature** None known

pH (as aqueous solution) No data available No information available Kinematic viscosity No data available None known

Dynamic viscosity No data available Partially miscible Water solubility

Solubility(ies) No data available None known **Partition coefficient** No data available None known No data available Vapour pressure None known Relative density No data available None known

**Bulk density** No data available **Liquid Density** No data available

Vapour density No data available None known

**Particle characteristics** 

**Particle Size** No information available **Particle Size Distribution** No information available

#### 9.2. Other information

### 9.2.1. Information with regards to physical hazard classes

Not applicable

#### 9.2.2. Other safety characteristics

No information available

### **SECTION 10: Stability and reactivity**

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10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

10.5. Incompatible materials

**Incompatible materials**None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

### **SECTION 11: Toxicological information**

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

Information on likely routes of exposure

**Product Information** 

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

Acute toxicity

**Numerical measures of toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 36,205.10 mg/kg ATEmix (inhalation-dust/mist) 599.50 mg/l

**Component Information** 

| Chemical name | Oral LD50          | Dermal LD50 | Inhalation LC50        |
|---------------|--------------------|-------------|------------------------|
| Ethyl alcohol | = 7060 mg/kg (Rat) | -           | = 116.9 mg/L (Rat) 4 h |
|               |                    |             | = 133.8 mg/L (Rat) 4 h |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** No information available.

Serious eye damage/eye irritation No information available.

**Respiratory or skin sensitisation** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

Reproductive toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Aspiration hazard** No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

11.2.2. Other information

Other adverse effects No information available.

### **SECTION 12: Ecological information**

12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life.

**Unknown aquatic toxicity**Contains 0 % of components with unknown hazards to the aquatic environment.

| Chemical name | Algae/aquatic plants | Fish                    | Toxicity to microorganisms | Crustacea              |
|---------------|----------------------|-------------------------|----------------------------|------------------------|
|               |                      |                         | Illicroorganisms           |                        |
| Ethyl alcohol | -                    | LC50: 12.0 - 16.0mL/L   | -                          | LC50: 9268 - 14221mg/L |
|               |                      | (96h, Oncorhynchus      |                            | (48h, Daphnia magna)   |
|               |                      | mykiss)                 |                            | EC50: =2mg/L (48h,     |
|               |                      | LC50: >100mg/L (96h,    |                            | Daphnia magna)         |
|               |                      | Pimephales promelas)    |                            |                        |
|               |                      | LC50: 13400 - 15100mg/L |                            |                        |
|               |                      | (96h, Pimephales        |                            |                        |
|               |                      | promelas)               |                            |                        |

### 12.2. Persistence and degradability

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Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential

#### **Bioaccumulation**

**Component Information** 

| Chemical name | Partition coefficient |  |
|---------------|-----------------------|--|
| Ethyl alcohol | -0.35                 |  |

#### 12.4. Mobility in soil

Mobility in soil

No information available.

#### 12.5. Results of PBT and vPvB assessment

#### PBT and vPvB assessment

| Chemical name | PBT and vPvB assessment         |
|---------------|---------------------------------|
| Ethyl alcohol | The substance is not PBT / vPvB |

#### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** 

No information available.

#### 12.7. Other adverse effects

No information available.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste from residues/unused products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental

legislation.

Contaminated packaging

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

### **SECTION 14: Transport information**

#### IATA

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
Not regulated Not regulated Not applicable

14.6 Special Precautions for Users

Special Provisions None

IMDG

14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards

Not regulated
Not regulated
Not regulated
Not applicable

14.6 Special Precautions for Users

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# Robocolumn units)

**Special Provisions** 

14.7 Maritime transport in bulk according to IMO instruments

No information available

None

RID

14.1 UN number Not regulated Not regulated 14.2 UN proper shipping name 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated Not applicable 14.5 Environmental hazards

14.6 Special Precautions for Users

**Special Provisions** None

ADR

14.1 UN number or ID number Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

**Special Provisions** None

### SECTION 15: Regulatory information

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

### National regulations

#### **France**

Occupational Illnesses (R-463-3, France)

| Chemical name | French RG number | Title |
|---------------|------------------|-------|
| Ethyl alcohol | RG 84            | -     |
| 64-17-5       |                  |       |

Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1)

#### **Netherlands**

| Chemical name | Netherlands - List of<br>Carcinogens | Netherlands - List of<br>Mutagens | Netherlands - List of<br>Reproductive Toxins |
|---------------|--------------------------------------|-----------------------------------|--|
| Ethyl alcohol | Present                              | -                                 | Fertility Category 1A                        |
|               |                                      |                                   | Development Category 1A                      |
|               |                                      |                                   | Can be harmful via                           |
|               |                                      |                                   | breastfeeding                                |

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### **Persistent Organic Pollutants**

Not applicable

### Dangerous substance category per Seveso Directive (2012/18/EU)

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P5a - FLAMMABLE LIQUIDS P5b - FLAMMABLE LIQUIDS P5c - FLAMMABLE LIQUIDS

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Biocidal Products Regulation (EU) No 528/2012 (BPR)

| Chemical name           | Biocidal Products Regulation (EU) No 528/2012 (BPR)  |
|-------------------------|--|
| Ethyl alcohol - 64-17-5 | Product-type 1: Human hygiene Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 4: Food and |
|                         | feed area  |

<u>International Inventories</u> Contact supplier for inventory compliance status

15.2. Chemical safety assessment

Chemical Safety Report No information available

### **SECTION 16: Other information**

Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H225 - Highly flammable liquid and vapour

Legend

SVHC: Substances of Very High Concern for Authorisation:

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

| Classification procedure  |                    |
|---|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used        |
| Acute oral toxicity   | Calculation method |
| Acute dermal toxicity   | Calculation method |
| Acute inhalation toxicity - gas                                 | Calculation method |
| Acute inhalation toxicity - vapour                              | Calculation method |
| Acute inhalation toxicity - dust/mist                           | Calculation method |
| Skin corrosion/irritation                                       | Calculation method |
| Serious eye damage/eye irritation                               | Calculation method |
| Respiratory sensitisation                                       | Calculation method |
| Skin sensitisation  | Calculation method |
| Mutagenicity  | Calculation method |
| Carcinogenicity   | Calculation method |
| Reproductive toxicity   | Calculation method |
| STOT - single exposure  | Calculation method |
| STOT - repeated exposure  | Calculation method |
| Acute aquatic toxicity  | Calculation method |
| Chronic aquatic toxicity  | Calculation method |
| Aspiration hazard   | Calculation method |
| Ozone   | Calculation method |

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### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)

European Chemicals Agency (ECHA) (ECHA API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision Note Reformatted and updated existing information

Revision date 06-Sep-2023

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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