

# **SAFETY INFORMATION**

Revision date Version Issue date

16/04/2024 4 08/04/2020

**Product name: NZY Viral RNA Isolation kit** 

Catalogue reference(s): MB40701, 50 columns

| Components               | MB40701    | Safety<br>Information | Unique Formula<br>Identifier (UFI) |
|--------------------------|------------|-----------------------|------------------------------------|
| Buffer NVL               | 20 mL      | See specific SDS      | QSC0-P0C5-400P-FW5K                |
| Buffer NV                | 12.5 mL    | See specific SDS      | NMC0-N0YC-H00Q-470F                |
| Buffer NVW (concentrate) | 10 mL      | Not Hazardous *       |                                    |
| RNase-free Water         | 7 mL       | Not Hazardous *       |                                    |
| NZYSpin Virus Columns    | 50 columns | Not Hazardous *       |                                    |
| Collection tubes (2 mL)  | 50 units   | Not Hazardous *       |                                    |

<sup>\*</sup>The component mentioned above is not classified as hazardous according to CLP Regulation (EC) No 1272/2008. Consequently, does not require a Safety Data Sheet (SDS), according to Regulation (EC) No 1907/2006, emended by Regulation (EC) No 2020/878.



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

### MB407 - Buffer NVL

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 5 (Replaced 4)

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1 Product identifier:** MB407 - Buffer NVL

Other means of identification:

Not relevant

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

Relevant uses: Laboratory. For professional users only.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

NZYtech, Lda

Estrada do Paco do Lumiar Campus do Lumiar - Edif. E, r/c

1649-038 Lisboa - Lisboa - Portugal

Phone: +351 213643514 info@nzytech.com www.nzytech.com

1.4 Emergency telephone number: Contact Local Poison Information Center or Local Emergency Number

# **SECTION 2: HAZARDS IDENTIFICATION**

# 2.1 Classification of the substance or mixture:

# CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411

Eye Dam. 1: Serious eye damage, Category 1, H318 Skin Corr. 1C: Skin corrosion, Category 1C, H314

2.2 Label elements:

# CLP Regulation (EC) No 1272/2008:

Labelling of packages where the contents do not exceed 125 ml:

### Danger







#### **Hazard statements:**

Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.

# **Precautionary statements:**

P264: Wash thoroughly after handling.

P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P310: Immediately call a poison center/doctor.

# **Supplementary information:**

EUH032: Contact with acids liberates very toxic gas.

EUH071: Corrosive to the respiratory tract.

# Substances that contribute to the classification

Guanidinium thiocyanate; Polyethylene glycol mono(octylphenyl) ether

UFI: QSC0-P0C5-400P-FW5K

# 2.3 Other hazards:

Product does not meet PBT/vPvB criteria

The product contains substances with endocrine-disrupting properties: Polyethylene glycol mono(octylphenyl) ether

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 5 (Replaced 4) Page 1/12



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

#### MB407 - Buffer NVL

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 5 (Replaced 4)

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substance:

Non-applicable

#### 3.2 Mixture:

Chemical description: Mixture of substances

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

|                         | Identification   |                            | Chemical name/Classification  |                 |             |
|-------------------------|--|----------------------------|---|-----------------|-------------|
| CAS:                    | 593-84-0   | <b>Guanidinium thiocya</b> | nate <sup>(1)</sup>   | Self-classified |             |
| EC:<br>Index:<br>REACH: | 209-812-1<br>Non-applicable<br>01-2120735072-65-<br>XXXX | Regulation 1272/2008       | Acute Tox. 4: H302+H312+H332; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Corr. 1C: H314; EUH071 - Danger | <b>(1)</b>      | 50 - <75 %  |
| CAS:                    | 9036-19-5  | Polyethylene glycol r      | nono(octylphenyl) ether <sup>(1)</sup>  | Self-classified |             |
| EC:<br>Index:<br>REACH: | 935-231-4<br>Non-applicable<br>Non-applicable            | Regulation 1272/2008       | Acute Tox. 4: H302; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger                   |                 | 2,5 - <10 % |

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

| Identification                              | Acut            | Genus             |     |
|---|-----------------|-------------------|-----|
| Guanidinium thiocyanate                     | LD50 oral       | 593 mg/kg         | Rat |
| CAS: 593-84-0                               | LD50 dermal     | 1100 mg/kg (ATEi) |     |
| EC: 209-812-1                               | LC50 inhalation | 11 mg/L (ATEi)    |     |
| Polyethylene glycol mono(octylphenyl) ether | LD50 oral       | 500 mg/kg (ATEi)  |     |
| CAS: 9036-19-5                              | LD50 dermal     | Not relevant      |     |
| EC: 935-231-4                               | LC50 inhalation | Not relevant      |     |

# **SECTION 4: FIRST AID MEASURES**

# 4.1 Description of first aid measures:

Request medical assistance immediately, showing the SDS of this product.

### By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

#### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

#### By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

### By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and also risk damage to the respiratory system through inhalation. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

# 4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

# 4.3 Indication of any immediate medical attention and special treatment needed:



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

#### MB407 - Buffer NVL

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 5 (Replaced 4)

# SECTION 4: FIRST AID MEASURES (continued)

Not relevant

# **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media:

### Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

#### Unsuitable extinguishing media:

Non-applicable

### 5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

#### **Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

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

# For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

#### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

#### 6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

# 6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

#### 6.4 Reference to other sections:

See sections 8 and 13.

# SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

- CONTINUED ON NEXT PAGE -

Page 3/12

B.- Technical recommendations for the prevention of fires and explosions



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

#### MB407 - Buffer NVL

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 5 (Replaced 4)

# SECTION 7: HANDLING AND STORAGE (continued)

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

# 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

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

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

There are no applicable occupational exposure limits for the substances contained in the product

#### **DNEL (Workers):**

|                         |            | Short exposure         |              | Long exposure           |              |
|-------------------------|------------|------------------------|--------------|-------------------------|--------------|
| Identification          |            | Systemic               | Local        | Systemic                | Local        |
| Guanidinium thiocyanate | Oral       | Not relevant           | Not relevant | Not relevant            | Not relevant |
| CAS: 593-84-0           | Dermal     | Not relevant           | Not relevant | 0,31 mg/kg              | Not relevant |
| EC: 209-812-1           | Inhalation | 3,28 mg/m <sup>3</sup> | Not relevant | 1,092 mg/m <sup>3</sup> | Not relevant |

# **DNEL (General population):**

|                         |            | Short e      | xposure      | Long ex                | rposure      |
|-------------------------|------------|--------------|--------------|------------------------|--------------|
| Identification          |            | Systemic     | Local        | Systemic               | Local        |
| Guanidinium thiocyanate | Oral       | Not relevant | Not relevant | 0,155 mg/kg            | Not relevant |
| CAS: 593-84-0           | Dermal     | Not relevant | Not relevant | 0,155 mg/kg            | Not relevant |
| EC: 209-812-1           | Inhalation | Not relevant | Not relevant | 0,27 mg/m <sup>3</sup> | Not relevant |

#### PNEC:

| Identification          |              |               |                         |              |
|-------------------------|--------------|---------------|-------------------------|--------------|
| Guanidinium thiocyanate | STP          | 20 mg/L       | Fresh water             | 0,0424 mg/L  |
| CAS: 593-84-0           | Soil         | 0,00803 mg/kg | Marine water            | 0,00424 mg/L |
| EC: 209-812-1           | Intermittent | 0,424 mg/L    | Sediment (Fresh water)  | 0,165 mg/kg  |
|                         | Oral         | Not relevant  | Sediment (Marine water) | 0,0165 mg/kg |

# 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

# MB407 - Buffer NVL

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 5 (Replaced 4)

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Pictogram                                    | PPE                               | Labelling | CEN Standard        | Remarks  |
|--|-----------------------------------|-----------|---------------------|--|
| Mandatory<br>respiratory tract<br>protection | Filter mask for gases and vapours | CAT III   | EN 405:2002+A1:2010 | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

### C.- Specific protection for the hands

| Pictogram                 | PPE   | Labelling | CEN Standard      | Remarks  |
|---------------------------|---|-----------|-------------------|--|
| Mandatory hand protection | Chemical protective gloves<br>(Material: Nitrile,<br>Breakthrough time: > 480<br>min, Thickness: 0.11 mm) | CAT III   | EN ISO 21420:2020 | Replace the gloves at any sign of deterioration. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

### D.- Eye and face protection

| Pictogram                 | PPE         | Labelling | CEN Standard  | Remarks   |
|---------------------------|-------------|-----------|---|---|
| Mandatory face protection | Face shield | CATI      | EN 166:2002<br>EN 167:2002<br>EN 168:2002<br>EN ISO 4007:2018 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

### E.- Body protection

| Pictogram                          | PPE  | Labelling | CEN Standard   | Remarks   |
|------------------------------------|--|-----------|--|---|
| Mandatory complete body protection | Disposable clothing for protection against chemical risks  | CAT III   | EN 13034:2005+A1:2009<br>EN 168:2002<br>EN ISO 13982-<br>1:2004/A1:2010<br>EN ISO 6529:2013<br>EN ISO 6530:2005<br>EN 464:1994 | For professional use only. Clean periodically according to the manufacturer's instructions. |
| Mandatory foot protection          | Safety footwear for<br>protection against chemical<br>risk | CAT III   | EN ISO 20345:2011<br>EN 13832-1:2019   | Replace boots at any sign of deterioration.   |

### F.- Additional emergency measures

| Emergency measure | Standards                                       | Emergency measure | Standards                                      |
|-------------------|---|-------------------|--|
| *                 | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <b>-</b> ∰        | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |
| Emergency shower  |   | Eyewash stations  |  |

#### **Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

# Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply): 0 % weight
V.O.C. density at 20 °C: 0 kg/m³ (0 g/L)
Average carbon number: Not relevant
Average molecular weight: Not relevant

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

\*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 5 (Replaced 4) Page 5/12



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

### MB407 - Buffer NVL

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 5 (Replaced 4)

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

### 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

**Appearance:** 

Physical state at 20 °C:

Appearance:

Colour:

Odourless

Odour threshold:

Not available

Colourless

Odourless

Not relevant \*

Volatility:

Boiling point at atmospheric pressure: 100 °C Vapour pressure at 20 °C: 2350 Pa

Vapour pressure at 50 °C: 12381,01 Pa (12,38 kPa)

Evaporation rate at 20 °C: Not relevant \*

**Product description:** 

Density at 20 °C: 1068,3 kg/m³

Relative density at 20 °C: 1,068

Dynamic viscosity at 20 °C:

Kinematic viscosity at 20 °C:

Kinematic viscosity at 40 °C:

Concentration:

Not relevant \*

Not relevant \*

Not relevant \*

7.2 - 7.3

pH: 7,2 - 7,3

Vapour density at 20 °C: Not relevant \*

Partition coefficient n-octanol/water 20 °C: Not relevant \*

Solubility in water at 20 °C: Not relevant \*

Solubility properties: Not relevant \*

Decomposition temperature: Not relevant \*

Melting point/freezing point: Not relevant \*

Flammability:

Flash Point: Non Flammable (>60 °C)

Flammability (solid, gas):

Autoignition temperature:

Lower flammability limit:

Upper flammability limit:

Not relevant \*

Not relevant \*

Particle characteristics:

Median equivalent diameter: Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:

Oxidising properties:

Corrosive to metals:

Heat of combustion:

Aerosols-total percentage (by mass) of flammable

Not relevant \*

Not relevant \*

Not relevant \*

components:

Other safety characteristics:

Surface tension at 20 °C: Not relevant \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 5 (Replaced 4) Page 6/12



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

#### MB407 - Buffer NVL

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 5 (Replaced 4)

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Refraction index: Not relevant \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

# 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

#### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

#### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight       | Humidity       |
|--------------------|------------------|-------------------------|----------------|----------------|
| Not applicable     | Not applicable   | Not applicable          | Not applicable | Not applicable |

#### 10.5 Incompatible materials:

| Acids                     | Water          | Oxidising materials | Combustible materials | Others                        |
|---------------------------|----------------|---------------------|-----------------------|-------------------------------|
| Produces very toxic gases | Not applicable | Precaution          | Not applicable        | Avoid alkalis or strong bases |

#### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

### SECTION 11: TOXICOLOGICAL INFORMATION

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

The experimental information related to the toxicological properties of the product itself is not available

#### **Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
  - Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.
- B- Inhalation (acute effect):
  - Acute toxicity: Can be fatal after prolonged periods of exposure, as it releases toxic gases when it comes into contact with acids
  - Corrosivity/Irritability: Corrosive to the respiratory tract
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
  - Contact with the eyes: Produces serious eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
    - IARC: Not relevant
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
  - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

#### MB407 - Buffer NVL

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 5 (Replaced 4)

# SECTION 11: TOXICOLOGICAL INFORMATION (continued)

### E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

#### Other information:

Not relevant

#### Specific toxicology information on the substances:

| Identification                              | Acut            | Genus             |     |
|---|-----------------|-------------------|-----|
| Guanidinium thiocyanate                     | LD50 oral       | 593 mg/kg (ATEi)  | Rat |
| CAS: 593-84-0                               | LD50 dermal     | 1100 mg/kg (ATEi) |     |
| EC: 209-812-1                               | LC50 inhalation | 11 mg/L (ATEi)    |     |
| Polyethylene glycol mono(octylphenyl) ether | LD50 oral       | 500 mg/kg (ATEi)  |     |
| CAS: 9036-19-5                              | LD50 dermal     | >2000 mg/kg       |     |
| EC: 935-231-4                               | LC50 inhalation |                   |     |

# Acute Toxicity Estimate (ATE mix):

| ATE mix    |                                       | Ingredient(s) of unknown toxicity |  |  |
|------------|---------------------------------------|-----------------------------------|--|--|
| Oral       | 1002,88 mg/kg (Calculation method)    | 0 %                               |  |  |
| Dermal     | 2067,67 mg/kg (Calculation method)    | 0 %                               |  |  |
| Inhalation | 20,68 mg/L (4 h) (Calculation method) | 0 %                               |  |  |

# 11.2 Information on other hazards:

# **Endocrine disrupting properties**

Endocrine-disrupting properties: The product does not meet the criteria.

### Other information

Not relevant

# SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available Toxic to aquatic life with long lasting effects.

# 12.1 Toxicity:

# Acute toxicity:

| Identification                              |      | Concentration        | Species                 | Genus      |
|---|------|----------------------|-------------------------|------------|
| Guanidinium thiocyanate                     | LC50 | 89,1 mg/L (96 h)     | Poecilia reticulata     | Fish       |
| CAS: 593-84-0                               | EC50 | 42,4 mg/L (48 h)     | Daphnia magna           | Crustacean |
| EC: 209-812-1                               | EC50 | 130 mg/L (72 h)      | Desmodesmus subspicatus | Algae      |
| Polyethylene glycol mono(octylphenyl) ether | LC50 | >0.1 - 1 mg/L (96 h) |                         | Fish       |
| CAS: 9036-19-5                              | EC50 | >0.1 - 1 mg/L (48 h) |                         | Crustacean |
| EC: 935-231-4                               | EC50 | >0.1 - 1 mg/L (72 h) |                         | Algae      |

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 5 (Replaced 4) Page 8/12



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

#### MB407 - Buffer NVL

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 5 (Replaced 4)

# SECTION 12: ECOLOGICAL INFORMATION (continued)

### 12.2 Persistence and degradability:

#### Substance-specific information:

| Identification          | Degradability |              | Biodegradability |          |
|-------------------------|---------------|--------------|------------------|----------|
| Guanidinium thiocyanate | BOD5          | Not relevant | Concentration    | 343 mg/L |
| CAS: 593-84-0           | COD           | Not relevant | Period           | 28 days  |
| EC: 209-812-1           | BOD5/COD      | Not relevant | % Biodegradable  | 32 %     |

### 12.3 Bioaccumulative potential:

Not available

#### 12.4 Mobility in soil:

Not available

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

Product does not meet PBT/vPvB criteria

### 12.6 Endocrine disrupting properties:

Contains Polyethylene glycol mono(octylphenyl) ether. A substance shall be considered as having endocrine-disrupting properties that may cause adverse effects on non-target organisms if: (a) it shows an adverse effect in non-target organisms, which is a change in the morphology, physiology, growth, development, reproduction or life span of an organism, system or (sub)population that results in an impairment of functional capacity, an impairment of the capacity to compensate for additional stress or an increase in susceptibility to other influences

- (b) it has an endocrine mode of action, i.e. it alters the function(s) of the endocrine system
- (c) the adverse effect is a consequence of the endocrine mode of action.

#### 12.7 Other adverse effects:

Not described

# SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods:

| Code | Description   | Waste class (Regulation (EU) No<br>1357/2014) |  |
|------|---|---|--|
|      | It is not possible to assign a specific code, as it depends on the intended use by the user | Hazardous                                     |  |

### Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP12 Release of an acute toxic gas, HP6 Acute Toxicity, HP8 Corrosive

# Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

# Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

# **SECTION 14: TRANSPORT INFORMATION**

# Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

#### MB407 - Buffer NVL

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 5 (Replaced 4)

# SECTION 14: TRANSPORT INFORMATION (continued)



14.1 UN number or ID number: UN1760

CORROSIVE LIQUID, N.O.S. (Guanidinium thiocyanate; Polyethylene 14.2 UN proper shipping name:

glycol mono(octylphenyl) ether)

14.3 Transport hazard class(es): 8

Labels:

14.4 Packing group: Ш 14.5 Environmental hazards: Yes

14.6 Special precautions for user

Special regulations: 274 Tunnel restriction code: Ε

Physico-Chemical properties: see section 9

Limited quantities: 5 I

14.7 Maritime transport in bulk according to IMO

instruments:

Not relevant

# Transport of dangerous goods by sea:

With regard to IMDG 41-22:

14.1 UN number or ID number: UN1760

CORROSIVE LIQUID, N.O.S. (Guanidinium thiocyanate; Polyethylene 14.2 UN proper shipping name:

glycol mono(octylphenyl) ether)

14.3 Transport hazard class(es):

Labels:

14.4 Packing group: III 14.5 Marine pollutant: Yes

14.6 Special precautions for user

Special regulations: 274, 223 EmS Codes: F-A, S-B Physico-Chemical properties: see section 9

Limited quantities: 5 I

Segregation group: Not relevant 14.7 Maritime transport in bulk Not relevant

according to IMO instruments:

# Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:



14.1 UN number or ID number: UN1760

CORROSIVE LIQUID, N.O.S. (Guanidinium thiocyanate; Polyethylene 14.2 UN proper shipping name:

glycol mono(octylphenyl) ether)

14.3 Transport hazard class(es):

8 Labels:

III14.4 Packing group: 14.5 Environmental hazards: Yes

14.6 Special precautions for user

Physico-Chemical properties: see section 9 14.7 Maritime transport in bulk Not relevant

according to IMO

instruments:

# SECTION 15: REGULATORY INFORMATION

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

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 5 (Replaced 4) Page 10/12



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

#### MB407 - Buffer NVL

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 5 (Replaced 4)

# SECTION 15: REGULATORY INFORMATION (continued)

- Article 95, REGULATION (EU) No 528/2012: Not relevant
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): *Polyethylene glycol mono(octylphenyl) ether (9036-19-5)*
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

#### Seveso III:

| Section | Description           | Lower-tier requirements | Upper-tier requirements |
|---------|-----------------------|-------------------------|-------------------------|
| E2      | ENVIRONMENTAL HAZARDS | 200                     | 500                     |

# Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):

Shall not be used in:

- —ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- —tricks and jokes,
- —games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

#### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

#### Other legislation:

The product could be affected by sectorial legislation

### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

# SECTION 16: OTHER INFORMATION

# Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

# Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Not relevant

# Texts of the legislative phrases mentioned in section 2:

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H411: Toxic to aquatic life with long lasting effects.

H302: Harmful if swallowed.

# Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

# CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed.

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Eye Dam. 1: H318 - Causes serious eye damage.

Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

# Classification procedure:

Skin Corr. 1C: Calculation method Eye Dam. 1: Calculation method Aquatic Chronic 2: Calculation method Acute Tox. 4: Calculation method

# Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 5 (Replaced 4) Page 11/12



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

### MB407 - Buffer NVL

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 5 (Replaced 4)

# SECTION 16: OTHER INFORMATION (continued)

### Principal bibliographical sources:

http://echa.europa.eu http://eur-lex.europa.eu

# **Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 5 (Replaced 4) Page 12/12



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

#### MB407 - Buffer NV

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2)

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1 Product identifier:** MB407 - Buffer NV

Other means of identification:

Not relevant

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

Relevant uses: Laboratory. For professional users only.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

NZYtech, Lda

Estrada do Paco do Lumiar Campus do Lumiar - Edif. E, r/c

1649-038 Lisboa - Lisboa - Portugal

Phone: +351 213643514 info@nzytech.com www.nzytech.com

1.4 Emergency telephone number: Contact Local Poison Information Center or Local Emergency Number

# **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture:

#### CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Eye Irrit. 2: Eye irritation, Category 2, H319 Flam. Liq. 3: Flammable liquids, Category 3, H226 Skin Irrit. 2: Skin irritation, Category 2, H315

2.2 Label elements:

#### CLP Regulation (EC) No 1272/2008:

Labelling of packages where the contents do not exceed 125 ml:

Warning





#### **Hazard statements:**

Not relevant

# **Precautionary statements:**

Not relevant

UFI: NMC0-N0YC-H00Q-470F

2.3 Other hazards:

Product does not meet PBT/vPvB criteria

Endocrine-disrupting properties: The product does not meet the criteria.

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*:

# 3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Mixture of substances

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2) **Page 1/12** 

<sup>\*\*</sup> Changes with regards to the previous version



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

#### MB407 - Buffer NV

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2)

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*\* (continued)

|                         | Identification   |                        | Chemical name/Classification  |                 |            |  |
|-------------------------|--|------------------------|---|-----------------|------------|--|
|                         |  | ethanol <sup>(1)</sup> |   | Self-classified |            |  |
| EC:<br>Index:<br>REACH: | 200-578-6<br>603-002-00-5<br>01-2119457610-43-<br>XXXX | Regulation 1272/2008   | Eye Irrit. 2: H319; Flam. Liq. 2: H225 - Danger                       | <b>(1)</b>      | 25 - <50 % |  |
| CAS:                    | 50-01-1  | guanidinium chloride   | 2(1)  | Self-classified |            |  |
| EC:<br>Index:<br>REACH: | 200-002-3<br>607-148-00-0<br>01-2119977063-35-<br>XXXX | Regulation 1272/2008   | Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning | <b>(1)</b>      | 25 - <50 % |  |

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

### Other information:

| Identification                           | Specific concentration limit      |  |  |
|--|-----------------------------------|--|--|
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6 | % (w/w) >=50: Eye Irrit. 2 - H319 |  |  |

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

| Identification       | Acut            | Genus        |     |
|----------------------|-----------------|--------------|-----|
| guanidinium chloride | LD50 oral       | 907 mg/kg    | Rat |
| CAS: 50-01-1         | LD50 dermal     | Not relevant |     |
| EC: 200-002-3        | LC50 inhalation | Not relevant |     |

<sup>\*\*</sup> Changes with regards to the previous version

# **SECTION 4: FIRST AID MEASURES**

# 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

#### By inhalation

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

### By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

#### By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

#### By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

# 4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

# 4.3 Indication of any immediate medical attention and special treatment needed:

Not relevant

# **SECTION 5: FIREFIGHTING MEASURES**

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2) Page 2/12



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

#### MB407 - Buffer NV

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2)

# SECTION 5: FIREFIGHTING MEASURES (continued)

### 5.1 Extinguishing media:

#### Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

### Unsuitable extinguishing media:

Water jet

#### 5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

#### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

### **Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

#### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

# For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

#### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

# 6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

# 6.4 Reference to other sections:

See sections 8 and 13.

# SECTION 7: HANDLING AND STORAGE

# 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

#### MB407 - Buffer NV

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2)

### SECTION 7: HANDLING AND STORAGE (continued)

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

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

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

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

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

There are no applicable occupational exposure limits for the substances contained in the product

### **DNEL (Workers):**

|                      |            | Short exposure         |              | Long exposure         |              |
|----------------------|------------|------------------------|--------------|-----------------------|--------------|
| Identification       |            | Systemic               | Local        | Systemic              | Local        |
| ethanol              | Oral       | Not relevant           | Not relevant | Not relevant          | Not relevant |
| CAS: 64-17-5         | Dermal     | Not relevant           | Not relevant | 343 mg/kg             | Not relevant |
| EC: 200-578-6        | Inhalation | Not relevant           | Not relevant | 950 mg/m <sup>3</sup> | Not relevant |
| guanidinium chloride | Oral       | Not relevant           | Not relevant | Not relevant          | Not relevant |
| CAS: 50-01-1         | Dermal     | Not relevant           | Not relevant | 1 mg/kg               | Not relevant |
| EC: 200-002-3        | Inhalation | 10,5 mg/m <sup>3</sup> | Not relevant | 3,5 mg/m <sup>3</sup> | Not relevant |

# **DNEL (General population):**

|                      |            | Short exposure |              | Long exposure          |              |
|----------------------|------------|----------------|--------------|------------------------|--------------|
| Identification       |            | Systemic       | Local        | Systemic               | Local        |
| ethanol              | Oral       | Not relevant   | Not relevant | 87 mg/kg               | Not relevant |
| CAS: 64-17-5         | Dermal     | Not relevant   | Not relevant | 206 mg/kg              | Not relevant |
| EC: 200-578-6        | Inhalation | Not relevant   | Not relevant | 114 mg/m <sup>3</sup>  | Not relevant |
| guanidinium chloride | Oral       | Not relevant   | Not relevant | 0,5 mg/kg              | Not relevant |
| CAS: 50-01-1         | Dermal     | Not relevant   | Not relevant | 0,5 mg/kg              | Not relevant |
| EC: 200-002-3        | Inhalation | Not relevant   | Not relevant | 0,87 mg/m <sup>3</sup> | Not relevant |

### PNEC:

| Identification |              |            |                         |           |
|----------------|--------------|------------|-------------------------|-----------|
| ethanol        | STP          | 580 mg/L   | Fresh water             | 0,96 mg/L |
| CAS: 64-17-5   | Soil         | 0,63 mg/kg | Marine water            | 0,79 mg/L |
| EC: 200-578-6  | Intermittent | 2,75 mg/L  | Sediment (Fresh water)  | 3,6 mg/kg |
|                | Oral         | 0,38 g/kg  | Sediment (Marine water) | 2,9 mg/kg |

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2) Page 4/12



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

### MB407 - Buffer NV

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2)

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

### 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

| Pictogram                 | PPE   | Labelling | CEN Standard      | Remarks  |
|---------------------------|---|-----------|-------------------|--|
| Mandatory hand protection | Chemical protective gloves<br>(Material: Linear low-density<br>polyethylene (LLDPE),<br>Breakthrough time: > 480<br>min, Thickness: 0.062 mm) | CAT III   | EN ISO 21420:2020 | Replace the gloves at any sign of deterioration. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

#### D.- Eye and face protection

| Pictogram                 | PPE   | Labelling | CEN Standard                    | Remarks   |
|---------------------------|---|-----------|---------------------------------|---|
| Mandatory face protection | Panoramic glasses against splash/projections. | CATII     | EN 166:2002<br>EN ISO 4007:2018 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

# E.- Body protection

| Pictogram                          | PPE   | Labelling | CEN Standard   | Remarks                                     |
|------------------------------------|---|-----------|--|---|
| Mandatory complete body protection | Antistatic and fireproof protective clothing                        | CAT III   | EN 1149-1:2006<br>EN 1149-2:1997<br>EN 1149-3:2004<br>EN 168:2002<br>EN ISO 14116:2015<br>EN 1149-5:2018 | Limited protection against flames.          |
| Mandatory foot protection          | Safety footwear with<br>antistatic and heat resistant<br>properties | CAT III   | EN ISO 13287:2020<br>EN ISO 20345:2011   | Replace boots at any sign of deterioration. |

# F.- Additional emergency measures

| Emergency measure | Standards                                       | Emergency measure | Standards                                      |
|-------------------|---|-------------------|--|
| *                 | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <b>→</b>          | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |
| Emergency shower  |   | Eyewash stations  |  |

# **Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

### Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply): 38 % weight

V.O.C. density at 20 °C: 374,39 kg/m³ (374,39 g/L)

Average carbon number: 2

Average molecular weight: 46,1 g/mol



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

#### MB407 - Buffer NV

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2)

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

**Appearance:** 

Physical state at 20 °C:

Appearance:

Colour:

Colour:

Odour:

Alcohol

Odour threshold:

Not available

Alcohol

Not relevant \*

Volatility:

Boiling point at atmospheric pressure: 87 °C
Vapour pressure at 20 °C: 3662 Pa

Vapour pressure at 50 °C: 18099,58 Pa (18,1 kPa)

Evaporation rate at 20 °C: Not relevant \*

**Product description:** 

Density at 20 °C: 985,2 kg/m3 0,985 Relative density at 20 °C: Dynamic viscosity at 20 °C: 1,83 cP Kinematic viscosity at 20 °C: 1,85 mm<sup>2</sup>/s Kinematic viscosity at 40 °C: Not relevant \* Concentration: Not relevant \* pH: 7,2 - 7,3 Vapour density at 20 °C: Not relevant \* Partition coefficient n-octanol/water 20 °C: Not relevant \* Solubility in water at 20 °C: Not relevant \* Solubility properties: Not relevant \* Not relevant \* Decomposition temperature: Melting point/freezing point: Not relevant \*

Flammability:

Flash Point: 23 °C

Flammability (solid, gas):

Autoignition temperature:

Lower flammability limit:

Upper flammability limit:

Not available

Not available

Particle characteristics:

Median equivalent diameter: Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties: Not relevant \*
Oxidising properties: Not relevant \*
Corrosive to metals: Not relevant \*
Heat of combustion: Not relevant \*
Aerosols-total percentage (by mass) of flammable Not relevant \*

components:

Other safety characteristics:

Surface tension at 20 °C: Not relevant \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2) Page 6/12



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

#### MB407 - Buffer NV

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2)

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Refraction index: Not relevant \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

### 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

#### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

#### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Increase in temperature Sunlight |                |
|--------------------|------------------|-------------------------|----------------------------------|----------------|
| Not applicable     | Not applicable   | Risk of combustion      | Avoid direct impact              | Not applicable |

#### 10.5 Incompatible materials:

| Acids              | Water          | Oxidising materials | Combustible materials | Others                        |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable        | Avoid alkalis or strong bases |

#### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

### SECTION 11: TOXICOLOGICAL INFORMATION \*\*

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

The experimental information related to the toxicological properties of the product itself is not available

#### **Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

- A- Ingestion (acute effect):
  - Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
  - Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- B- Inhalation (acute effect):
  - Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
  - Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Produces skin inflammation.
  - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2) Page 7/12

<sup>\*\*</sup> Changes with regards to the previous version



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

#### MB407 - Buffer NV

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2)

# SECTION 11: TOXICOLOGICAL INFORMATION \*\* (continued)

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
  - IARC: ethanol (1)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

### E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

#### Other information:

Not relevant

# Specific toxicology information on the substances:

| Identification       |             | Acute toxicity         |        |  |
|----------------------|-------------|------------------------|--------|--|
| guanidinium chloride | LD50 oral   | 907 mg/kg (ATEi)       | Rat    |  |
| CAS: 50-01-1         | LD50 derma  | al >2000 mg/kg         |        |  |
| EC: 200-002-3        | LC50 inhala | ation >5 mg/L          |        |  |
| ethanol              | LD50 oral   | 6200 mg/kg             | Rat    |  |
| CAS: 64-17-5         | LD50 derma  | al 20000 mg/kg         | Rabbit |  |
| EC: 200-578-6        | LC50 inhala | ation 124,7 mg/L (4 h) | Rat    |  |

### Acute Toxicity Estimate (ATE mix):

|   | Ingredient(s) of unknown toxicity   |                |
|---|-------------------------------------|----------------|
| Oral 3164,69 mg/kg (Calculation method) 0 |                                     | 0 %            |
| Permal >2000 mg/kg (Calculation method)   |                                     | Non-applicable |
| Inhalation                                | >20 mg/L (4 h) (Calculation method) | Non-applicable |

# 11.2 Information on other hazards:

# **Endocrine disrupting properties**

Endocrine-disrupting properties: The product does not meet the criteria.

#### Other information

Not relevant

### SECTION 12: ECOLOGICAL INFORMATION \*\*

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

#### 12.1 Toxicity:

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2) Page 8/12

<sup>\*\*</sup> Changes with regards to the previous version

<sup>\*\*</sup> Changes with regards to the previous version



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

# MB407 - Buffer NV

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2)

# SECTION 12: ECOLOGICAL INFORMATION \*\* (continued)

# **Acute toxicity:**

| Identification |      | Concentration     | Species                | Genus      |
|----------------|------|-------------------|------------------------|------------|
| ethanol        | LC50 | 11000 mg/L (96 h) | Alburnus alburnus      | Fish       |
| CAS: 64-17-5   | EC50 | 9268 mg/L (48 h)  | Daphnia magna          | Crustacean |
| EC: 200-578-6  | EC50 | 1450 mg/L (192 h) | Microcystis aeruginosa | Algae      |

# **Chronic toxicity:**

| Identification             |      | Concentration | Species             | Genus      |
|----------------------------|------|---------------|---------------------|------------|
| ethanol                    | NOEC | 250 mg/L      | Danio rerio         | Fish       |
| CAS: 64-17-5 EC: 200-578-6 | NOEC | 2 mg/L        | Ceriodaphnia dubia  | Crustacean |
| guanidinium chloride       | NOEC | 181 mg/L      | Pimephales promelas | Fish       |
| CAS: 50-01-1 EC: 200-002-3 | NOEC | 2,9 mg/L      | Daphnia magna       | Crustacean |

### 12.2 Persistence and degradability:

# **Substance-specific information:**

| Identification       | Degradability |              | Biodegradability |          |
|----------------------|---------------|--------------|------------------|----------|
| ethanol              | BOD5          | Not relevant | Concentration    | 100 mg/L |
| CAS: 64-17-5         | COD           | Not relevant | Period           | 14 days  |
| EC: 200-578-6        | BOD5/COD      | Not relevant | % Biodegradable  | 89 %     |
| guanidinium chloride | BOD5          | Not relevant | Concentration    | 20 mg/L  |
| CAS: 50-01-1         | COD           | Not relevant | Period           | 22 days  |
| EC: 200-002-3        | BOD5/COD      | Not relevant | % Biodegradable  | 100 %    |

# 12.3 Bioaccumulative potential:

# **Substance-specific information:**

| Identification       |   | Bioaccumulation potential |       |
|----------------------|---|---------------------------|-------|
| ethanol              |   | BCF                       | 3     |
|                      |   | Pow Log                   | -0.31 |
|                      |   | Potential                 | Low   |
| guanidinium chloride |   | BCF                       | 1     |
| CAS: 50-01-1         |   | Pow Log                   | -1.63 |
| EC: 200-002-3        | Ī | Potential                 | Low   |

# 12.4 Mobility in soil:

| Identification | Absorption/desorption |                      | Absorption/desorption Volatility |                   |
|----------------|-----------------------|----------------------|----------------------------------|-------------------|
| ethanol        | Koc                   | 1                    | Henry                            | 4,61E-1 Pa·m³/mol |
| CAS: 64-17-5   | Conclusion            | Very High            | Dry soil                         | Yes               |
| EC: 200-578-6  | Surface tension       | 2,339E-2 N/m (25 °C) | Moist soil                       | Yes               |

# 12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

# 12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

# 12.7 Other adverse effects:

Not described

# **SECTION 13: DISPOSAL CONSIDERATIONS**

### 13.1 Waste treatment methods:

| Code | Description   | Waste class (Regulation (EU) No<br>1357/2014) |
|------|---|---|
|      | It is not possible to assign a specific code, as it depends on the intended use by the user | Hazardous                                     |

# Type of waste (Regulation (EU) No 1357/2014):

- CONTINUED ON NEXT PAGE -

<sup>\*\*</sup> Changes with regards to the previous version



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

#### MB407 - Buffer NV

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2)

# SECTION 13: DISPOSAL CONSIDERATIONS (continued)

HP3 Flammable, HP6 Acute Toxicity, HP4 Irritant — skin irritation and eye damage

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

### Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

# **SECTION 14: TRANSPORT INFORMATION**

### Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

3

**14.1 UN number or ID number:** UN1993

**14.2 UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ethanol)

14.3 Transport hazard class(es): 3

 Labels: 3

 14.4 Packing group: III
 14.5 Environmental hazards: No

14.6 Special precautions for user

Special regulations: 274, 601
Tunnel restriction code: D/E

Physico-Chemical properties: see section 9

Limited quantities: 5 L

14.7 Maritime transport in bulk Not relevant

according to IMO instruments:

# Transport of dangerous goods by sea:

With regard to IMDG 41-22:

**14.1 UN number or ID number:** UN1993

**14.2 UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ethanol)

14.3Transport hazard class(es):3Labels:314.4Packing group:III14.5Marine pollutant:No

**14.6** Special precautions for user

Special regulations: 274, 223, 955

EmS Codes: F-E, S-E

Physico-Chemical properties: see section 9

Limited quantities: 5 L

Segregation group: Not relevant **14.7 Maritime transport in bulk** Not relevant

14.7 Maritime transport in bulk according to IMO

instruments:

### Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2) Page 10/12



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

#### MB407 - Buffer NV

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2)

# SECTION 14: TRANSPORT INFORMATION (continued)



**14.1 UN number or ID number:** UN1993

**14.2 UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (ethanol)

14.3 Transport hazard class(es): 3
 Labels: 314.4 Packing group: III

14.4 Packing group: III

14.5 Environmental hazards: No

14.6 Special precautions for user

Physico-Chemical properties: see section 9

Maritime transport in bulk

Not relevant

14.7 Maritime transport in bulk according to IMO

instruments:

# **SECTION 15: REGULATORY INFORMATION**

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

- Article 95, REGULATION (EU) No 528/2012: ethanol (64-17-5) PT: (1,2,4,6)
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

#### Seveso III:

| Section | Description       |      | Upper-tier requirements |
|---------|-------------------|------|-------------------------|
| P5c     | FLAMMABLE LIQUIDS | 5000 | 50000                   |

# Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):

Shall not be used in:

- —ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- -tricks and jokes,
- —games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

# Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

#### Other legislation:

The product could be affected by sectorial legislation

### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

# **SECTION 16: OTHER INFORMATION**

### Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

# Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

· New declared substances

guanidinium chloride (50-01-1)

· Removed substances

guanidinium chloride (50-01-1)

# Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation.

H226: Flammable liquid and vapour.

H319: Causes serious eye irritation.

- CONTINUED ON NEXT PAGE -

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2) Page 11/12



This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

#### MB407 - Buffer NV

Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2)

# SECTION 16: OTHER INFORMATION (continued)

### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

# CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed. Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

Skin Irrit. 2: H315 - Causes skin irritation.

#### Classification procedure:

Skin Irrit. 2: Calculation method

Flam. Liq. 3: Calculation method (2.6.4.3)

Eye Irrit. 2: Calculation method

#### Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

# Principal bibliographical sources:

http://echa.europa.eu http://eur-lex.europa.eu

#### **Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET 
Date of compilation: 08/04/2020 Revised: 16/04/2024 Version: 3 (Replaced 2) Page 12/12