

# Safety Data Sheet

according 1907/2006/EC (REACH), 2015/830/EU

# **NovaMax Bloom**

Date :25 Août 2020 Version No. 2 Review date: 03/01/2022

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

Product identifier

1.1 Product name: NOVAMAX BLOOM

Relevant identified uses of the substance or

1.2 mixture and uses advised against

Relevant identified uses of the substance or mixture:

Fertilizer for hydroponic solution to promote vigorous flowering and fruiting of plants.

Uses advised against:

Any use not specified in this section or in section 7.3 Use Descriptor System (REACH): Not applicable.

1.3 Details of the supplier of the safety data sheet

Supplier identification \_\_

Terra Aquatica

Address

4, boulevard du Biopole 32500 FLEURANCE

Phone number

+33 (0)5 62 06 08 30

E-mail address

info@eurohydro.com

1.4 Emergency telephone number

Medical services/

999

emergency services

999

Fire and rescue services

Police 1.4

101

EU Emergency call line

112

Toxicological

+33 01 45 41 59 59

Information Centre

ORFILA (INRS)

+33 05 61 77 74 47

Toxicological Information Centre

South West

# SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Reg. 1272/2008/CLP In accordance with Regulation No. 1272/2008 (CLP), the product is not considered dangerous.

Additional information:

Hazards for humans H319 - Causes serious eye irritation

Enviromental hazards

Physico-chemical hazards

Other hazards

None

None

### Labelling elements

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

2.2 Hazard pictograms



Signal word DANGER

Hazardous substances to be indicated on the

None

label

Hazard statements H:

H319 - Causes serious eye irritation

Disclaimer P Phrases (Reg. 1272/2008/CLP)

Prevention

P280 - Wear eye or face protection.

P264 - Wash hands thoroughly after handling.

In case of eye contact: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to remove. Continue rinsing.

P337 + P313 - If eye irritation persists: Seek medical attention.

2.3 Other hazards

Reg. 1272/2008/CLP No.

None

# 3 SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable

Mixtures NOVAMAX BLOOM NOVAMAX BLOOM

Mixtures classified as

dangerous

Not applicable

Chemical name % CAS number

Calcium nitrate  $\geq 10 - \leq 25$  15245-12-2 Magnesium nitrate hexahydrate  $\geq 3 - \leq 10$  13446-18-9 Cobalt sulphate  $\geq 0.01$  10026-24-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4 SECTION 4 : FIRST AID MEASURES

In general, if in doubt or if symptoms persist, seek medical attention. Do not give anything by mouth to an unconscious person.

# 4.1 Description of first aid measures

Following eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get

medical attention.

Following skin contact
Flush contaminated skin with plenty of soapy water. Get medical attention if symptoms occur.

Wash clothing before reuse. Clean shoes thoroughly before reuse.

Following ingestion
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at

rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical staff. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt

or waistband.

Following inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not

breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours.

Self-protection of the first aider

No action should be taken that involves an individual risk or in the absence of appropriate training. If it is suspected that fumes are present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It can be dangerous for the person assisting a victim to practice mouth-to-mouth. Wash contaminated clothing thoroughly with water before removing

it, or wear gloves.

Other information

For further details of first aid administration, including but not limited to more serious health
effects, the doctor may consult the Toxicological Information Centre, hotline: see section 1.4

Most important symptoms and effects, both acute and delayed

4.2

### Potential acute health effects:

Eye contact: Can cause serious eye irritation.

Inhalation: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Skin contact: No known significant effects or critical hazards.

## Signs/symptoms of overexposure:

Eye contact: Adverse symptoms may include the following: pain or irritation, watering, redness

Inhalation: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Skin contact: No known significant effects or critical hazards.

Indication of any immediate medical attention and special treatment needed

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

No specific treatment - symptomatic treatment

# 5 SECTION 5 : FIREFIGHTING MEASURES

### **Extinguishing media**

The product is not flammable. Fire hazard low due to the flammability characteristics of the product under normal storage, handling and use conditions.

Suitable extinguishing media:

Use an extinguishing agent suitable for the surrounding fire or in the event of continued combustion, caused by improper handling, storage or use, the following extinguishing media may be used: carbon dioxide (CO2), foam, chemical powders, and in the event of a widespread fire, also water spray.

Inappropriate extinguishing media:

In case of fire, do not use: Water jet

Special hazards arising from the substance or mixture

Hazards due to the substance or mixture:

Given its flammability characteristics, the product does not present a specific risk of fire or explosion under normal storage, handling and use conditions.

Risk related to thermal decomposition products:

A fire in the surrounding area will often produce thick black smoke. Exposure to compositional products may pose health risks. Do not breathe dust, vapours or fumes released by the combustion of the products.

Decomposition products may include the following materials:

carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
phosphorus oxides

metal oxide/oxides

### Advice for firefighters

Protective actions to be taken when fighting fires

Quickly isolate the area by evacuating all persons from the area near the incident in case of fire. Do not take any action involving a personal risk or in the absence of adequate training. Keep containers away from fire if it can be done without risk. Use water or water spray to keep containers exposed to fire cool.

Appropriate protective equipment

The product is not combustible. In the event of a fire in the surrounding area, appropriate extinguishing media and protective equipment may be used for the other materials present (full protective clothing and personal respiratory equipment), in accordance with EN469 for a basic level of protection against chemical incidents. Firefighters must wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece, positive-pressure mask. Have a minimum of emergency facilities or intervention elements (fireproof blankets, first-aid kit, etc.) according to Directive 89/654/EC.

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5.3

Other information

Additional provisions:

Respond in accordance with the Internal Emergency Plan and the Fact Sheets on Accident and Other Emergency Response. Remove all sources of ignition. In case of fire, refrigerate containers and storage tanks for products that may ignite and explode as a result of high temperatures. Avoid spilling products used to extinguish the fire in the aquatic environment.

5.4

### SECTION 6: ACCIDENTAL RELEASE MESURES

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

For non-emergency personnel

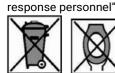
Ensure good ventilation.

No action should be taken that poses an individual risk or in the absence of appropriate training. Prevent unnecessary and unprotected personnel from entering. Do not touch or walk on spilled material. Avoid breathing dust or vapour. Provide adequate ventilation. Wear an appropriate respirator when ventilation is inadequate. Wear appropriate personal protective equipment. (See section 8)

For emergency responders

If specific clothing is required to handle the spill, refer to Section 8 for appropriate and inappropriate materials. See also the information contained in "For personnel other than

Environmental precautions



precautions

Avoid contamination of soil, sewers, surface water and groundwater. If this happens, inform the competent authorities.

### Methods and material for containment and cleaning up

6.3

6.2

For containment:

Sewer coverage

For cleaning up:

Stop the spill if it is safe to do so. Move containers out of spill area. Release as wind approaches. Prevent entry into sewers, waterways, basements or confined areas. Wash spills in an effluent treatment plant or proceed as follows: Contain and collect spills with non-combustible absorbent material such as sand, soil, vermiculite or diatomaceous soil and place in a container for disposal in accordance with local regulations (see section 13). Dispose of through a licensed waste disposal company. Contaminated absorbent may pose the same hazard as the spilled product.

Wash area with water.

Note: See Section 1 for emergency contact information and Section 13 for waste disposal.

Reference to other sections

Collect the remains in an identified container: see point 13 for disposal.

Personal protective equipment: see section 8
Withdrawal considerations: see section 13.

See section 1 for emergency contact information.

# 7 SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Put on appropriate personal protective equipment (see section 8). Do not ingest. Avoid contact with eyes. Store in original container, out of direct sunlight, in a dry, cool, well-ventilated place, away from incompatible materials (see section 10), food and drink. Keep container tightly closed and sealed until time of use. Containers that have been opened must

6.4

be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Do not reuse containers. Use appropriate containment to prevent environmental contamination.

### Advice on professional hygiene in general:

It is prohibited to eat, drink or smoke in areas where this product is handled, stored or used. It is recommended that staff wash their hands and face before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering a food court. See also section 8 for more information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store upright in the original container away from direct sunlight in a dry, cool and well-ventilated place away from incompatible materials (see section 10). Keep under lock and key. Keep container upright, tightly closed when not in use. Containers that have been opened must be carefully closed again and kept in an upright position to prevent leaks. Do not store in unlabelled containers. Do not store in the presence of food products. Use an appropriate container to avoid contamination of the surrounding environment. Enclose storage facilities with containment dikes to prevent soil and water pollution in the event of a spill.

Specific end use(s)

No specific end uses.

7.3

8.1

7.2

Good practices: keep in closed containers. Close containers before and after each use to avoid sources of moisture or heat. Store in areas with waterproof pavement.

# SECTION 8: EXHIBITION CONTROLS/INDIVIDUAL PROTECTION

**Control parameters** Not applicable

Use good industrial hygiene practices.

8.2 Exposure controls

> Ingredient name **Exposure limits**

Calcium nitrate None Magnesium nitrate hexahydrate None Cobalt sulphate None

Appropriate engineering

controls

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Individual protection measures, such as personal protective equipment

No personal protection required. In general, use individual protections placed on the market in accordance with the provisions of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016.

Personal protective equipment must be adapted to the risk, kept clean and properly maintained in accordance with the provisions of the Labour Code.

Eye/face protection

Protective eyewear complying with an approved standard should be used when a risk assessment indicates that this is necessary to avoid exposure to splashes of liquids, mists, gases or dusts. In case of possible contact, wear the following protective eyewear unless the assessment indicates a higher degree of protection: safety glasses with side shields. If conditions require it, use safety glasses complying with the NF EN166 standard.

Skin protection

Hands: Wear suitable protective gloves in case of prolonged or repeated contact with the

product.

Chemical-resistant, impervious gloves complying with an approved standard (NF EN374) should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance Physical state: liquid

Color: Brown

Odour Sweet vanilla

pH 2

Melting point

Freezing point

Initial boiling point

Not available

Not available

and boiling range Flash point

Not available

Evaporation rate
Not available
Flammability (solid, gas)
Not available

Upper/lower flammability or explosive limits

Not available

Vapour pressure Not available
Vapour density Not available

Relative density 1.43

Solubility(ies) 20°C Entirely Soluble in water

Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature

Not available

Not available

Not available

Viscosity

Explosive properties

Oxidising properties

Not available

Not available

Refraction index Not available Rotary power Not available

9.2 Other information

No other information

#### 10 **SECTION 10: STABILITY AND REACTIVITY**

Reactivity No specific reactivity test data are available for this product or its components in normal

conditions of use.

**Chemical stability** The product is stable at room temperature in closed packages and under normal storage and 10.2

handling conditions.

No hazardous polymerization can be produced by any of these components.

Possibility of hazardous 10.3 reactions

No risk of dangerous reactions under normal use and storage conditions.

Conditions to avoid

No special conditions to avoid. Comply with usual precautionary practices regarding

chemicals.

Incompatible materials

Not available.

10.5

10.6

10.4

10.1

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

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

#### 11.1 Information on toxicological effects

acute toxicity

Ingredient name Result Species Dose Exposure LD50 Oral Calcium nitrate Rat 500 mg/kg

Magnesium nitrate

hexahydrate LD50 Oral Rat 5440 mg/kg

LD50 Oral Cobal sulphate Rat 768 mg/kg

(b) skin

corrosion/irritation;

Ingredient name Result Observation **Species** Score Exposure

Magnesium Eyes - Mild irritant Rabbit 24 hours 500 mg nitrate Skin - Mild irritant Rabbit 24 hours 500 mg

hexahydrate

There is no data available.

(c) serious eye damage/irritation;

(d) respiratory or skin sensitisation;

(e) germ cell

mutagenicity; (f) carcinogenicity;

(g) reproductive toxicity;

(h) STOT-single

exposure;

(i) STOT-repeated

exposure;

(j) aspiration hazard

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No known significant effects or critical hazards. Inhalation: No known significant effects or critical hazards. Skin exposure: No known significant effects or critical hazards.

Eye exposure: pain or irritation, watering, redness

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

No known significant effects or critical hazards.

Interactive effects

No known significant effects or critical hazards. No known significant effects or critical hazards.

Absence of specific data Mixtures

No known significant effects or critical hazards.

Mixture versus substance information Other information

12

12.3

12.4

13.1

No known significant effects or critical hazards.

Comply with good industrial hygiene practices

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

12.1 **Toxicity** No data available to date to the best of our knowledge

12.2 Persistence and No data available to date to the best of our knowledge

degradability **Bioaccumulative** potential

No data available to date to the best of our knowledge

Mobility in soil

No data available to date to the best of our knowledge. Waste generation should be avoided or minimized as much as possible, and the product should not be discharged into sewers or

waterways.

12.5 Results of PBT and vPvB assessment 12.6 Other adverse effects

There is no data available.

No known significant effects or critical hazards.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods

The generation of waste should be avoided or minimised as much as possible. Disposal of this product, solutions and any sub-products should be in accordance with the requirements of environmental protection and waste disposal legislation and the requirements of regional local authorities. Dispose of excess and non-recyclable products through a licensed waste disposal contractor. Untreated waste should not be disposed into the sewer unless it fully complies with the requirements of all authorities having jurisdiction. Packaging waste should be recycled. Incineration or burial should be considered only when recycling is not possible. This product and its container should be disposed of in a safe manner. Completely empty the container. Keep the label on the container. Take to an approved waste disposal company.

Care must be taken when handling empty containers that have not been cleaned or rinsed. Empty containers or liners may contain product residue. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Waste codes / waste designations according to LoW:

Not applicable

#### **SECTION 14: TRANSPORT INFORMATION** 14

Non-hazardous transport. In the event of an accident and product spillage, proceed as described in point 6

**UN number** Not regulated. Non-hazardous transport

**UN proper shipping** 

14.2 name

14.1

Transport hazard

14.3 class(es)

> ADR **IMDG**

Not regulated. Non-hazardous transport

OACI/IATA

Packing group

14.4

14.5

14.6

**Environmental hazards** Nο

Special precautions for

user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an

accident or spillage.

Not available

Transport in bulk according to Annex II of 14.7

MARPOL73/78 and the

**IBC Code** 

15 **SECTION 15: REGULATORY INFORMATION** 

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

15.1

Reg. 1272/2008/CE

The product does not contain substances that can be classified as carcinogenic. 1 or 2

according to Reg.1272/2008/EC and subsequent updates.

Reg. 830/2015/CE

(REACH)

Not applicable

Special hazards

To our knowledge, no other national or governmental regulations apply.

15.2 **Chemical safety** assessment

Evaluation not carried out

# **SECTION 16: OTHER INFORMATION**

Abbreviations and acronyms:

ETA = Acute Toxicity Estimation

CLP = Regulation 1272/2008/EC on classification, labelling and packaging of substances and

mixtures

DNEL = Derived no-effect dose DMEL = Derived no-effect dose

EUH = Specific hazard statement CLP

CPSE = Predicted no-effect concentration

RRN = REACH registration number

PTB = Persistent, Toxic and Bioaccumulative tPtB = Very persistent and very bioaccumulative

bw = Body mass

**Key literature** references and sources for data

16.1

Regulation (EC) 1907/2006 of the European Parliament (REACH)

Regulation (EC) 1272/2008 of the European Parliament (CLP) Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)

Regulation (EC) 453/2010 of the European Parliament Regulation (EC) 286/2011 of the

European Parliament (II Atp. CLP)

The Merck index. Ed. 10 Handling and chemical safety

Niosh - Register of toxic effects of chemical substances

INRS - Toxicological Data Sheet

Patty - Industrial hygiene and toxicology

N.I. Sax - Dangerous properties of Industrial Materials - 7 Ed., 1989

ECHA website

16.3 Indication of changes:

16.2

Date of revision: 03/01/2022

Previous version date: 25/08/2020

Version:2

Modification: Section 1.3, Company name

16.4 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

The indicated mixture does not require an SDS according to the REACH requirements. This sheet is for information purposes only.

This safety data sheet complies with the requirements set out in Reg. 830/2015/EU. It does not exempt the user from knowing and applying all the documents that govern his activity. The user will take under his responsibility the precautions related to the specific use of the product. All the regulatory requirements mentioned are simply intended to help the recipient to assume his responsibilities. This list should not be considered exhaustive. This data sheet supplements the technical instructions for use but does not replace them. The information in this safety data sheet has been compiled by Terra Aquatica based on its current knowledge (safety data sheet for the active ingredients compiled by the manufacturer and other bibliographical data) as of the date indicated. It is given in good faith. In addition, the user's attention is drawn to the possible risks involved when a product is used for purposes other than those for which it was created. The recipient must ensure that he is not liable for anything other than what is stated in the texts other than those mentioned.

The information describes the safety aspects of the product. It is not intended to guarantee specific properties.

It is the responsibility of our customers to observe the applicable regulations.



# Safety Data Sheet

according 1907/2006/EC (REACH), 2015/830/EU

# **NovaMax Grow**

Date :25 Août 2020 Version No. 2 Review date: 03/01/2022

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

Product identifier

1.1 Product name: NOVAMAX GROW

Relevant identified uses of the substance or

1.2 mixture and uses advised against

Relevant identified uses of the substance or mixture:

Fertilizer for hydroponic solution to promote vigorous flowering and fruiting of plants.

Uses advised against:

Any use not specified in this section or in section 7.3 Use Descriptor System (REACH): Not applicable.

1.3 Details of the supplier of the safety data sheet

Supplier identification .

Terra Aquatica

Address

4, boulevard du Biopole 32500 FLEURANCE

Phone number

+33 (0)5 62 06 08 30

E-mail address

info@eurohydro.com

1.4 Emergency telephone number

Medical services/

999

emergency services

999

Fire and rescue services

Police 1.4

101

EU Emergency call line

112

Toxicological

+33 01 45 41 59 59

Information Centre

ORFILA (INRS)

+33 05 61 77 74 47

Toxicological Information Centre

South West

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Reg. 1272/2008/CLP In accordance with Regulation No. 1272/2008 (CLP), the product is not considered dangerous.

Additional information:

Hazards for humans H319 - Causes serious eye irritation

Enviromental hazards

Physico-chemical hazards
Other hazards

None

None

### Labelling elements

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

2.2 Hazard pictograms



Signal word DANGER

Hazardous substances to be indicated on the

None

label

Hazard statements H:

H319 - Causes serious eye irritation

Disclaimer P Phrases (Reg. 1272/2008/CLP)

Prevention

P280 - Wear eye or face protection.

P264 - Wash hands thoroughly after handling.

In case of eye contact: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to remove. Continue rinsing.

P337 + P313 - If eye irritation persists: Seek medical attention.

2.3 Other hazards

Reg. 1272/2008/CLP None

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable

Mixtures NOVAMAX GROW

Mixtures classified as

dangerous

Not applicable

Chemical name % CAS number

Calcium nitrate  $\geq 10 - \leq 25$  15245-12-2 Magnesium nitrate hexahydrate  $\geq 3 - \leq 10$  13446-18-9 Cobalt sulphate  $\geq 0.01$  10026-24-1

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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4 SECTION 4 : FIRST AID MEASURES

In general, if in doubt or if symptoms persist, seek medical attention. Do not give anything by mouth to an unconscious person.

# 4.1 Description of first aid measures

Following eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get

medical attention.

Following skin contact
Flush contaminated skin with plenty of soapy water. Get medical attention if symptoms occur.

Wash clothing before reuse. Clean shoes thoroughly before reuse.

Following ingestion
Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at

rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical staff. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt

or waistband.

Following inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not

breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours.

Self-protection of the first aider

No action should be taken that involves an individual risk or in the absence of appropriate training. If it is suspected that fumes are present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It can be dangerous for the person assisting a victim to practice mouth-to-mouth. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Other information

For further details of first aid administration, including but not limited to more serious health effects, the doctor may consult the Toxicological Information Centre, hotline: see section 1.4

Most important
4.2 symptoms and effects,
both acute and delayed

### Potential acute health effects:

Eye contact: Can cause serious eye irritation.

Inhalation: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Skin contact: No known significant effects or critical hazards.

## Signs/symptoms of overexposure:

Eye contact: Adverse symptoms may include the following: pain or irritation, watering, redness

Inhalation: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Skin contact: No known significant effects or critical hazards.

Indication of any immediate medical attention and special treatment needed

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

No specific treatment - symptomatic treatment

# 5 SECTION 5: FIREFIGHTING MEASURES

### **Extinguishing media**

The product is not flammable. Fire hazard low due to the flammability characteristics of the product under normal storage, handling and use conditions.

Suitable extinguishing media:

Use an extinguishing agent suitable for the surrounding fire or in the event of continued combustion, caused by improper handling, storage or use, the following extinguishing media may be used: carbon dioxide (CO2), foam, chemical powders, and in the event of a widespread

fire, also water spray.

Inappropriate extinguishing media:

In case of fire, do not use: Water jet

Special hazards arising from the substance or mixture

Hazards due to the substance or mixture:

Given its flammability characteristics, the product does not present a specific risk of fire or explosion under normal storage, handling and use conditions.

Risk related to thermal decomposition products:

A fire in the surrounding area will often produce thick black smoke. Exposure to compositional products may pose health risks. Do not breathe dust, vapours or fumes released by the combustion of the products.

Decomposition products may include the following materials:

carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
phosphorus oxides

metal oxide/oxides

Advice for firefighters

Protective actions to be taken when fighting fires

Quickly isolate the area by evacuating all persons from the area near the incident in case of fire. Do not take any action involving a personal risk or in the absence of adequate training. Keep containers away from fire if it can be done without risk. Use water or water spray to keep containers exposed to fire cool.

Appropriate protective equipment

The product is not combustible. In the event of a fire in the surrounding area, appropriate extinguishing media and protective equipment may be used for the other materials present (full protective clothing and personal respiratory equipment), in accordance with EN469 for a basic level of protection against chemical incidents. Firefighters must wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece, positive-pressure mask. Have a minimum of emergency facilities or intervention elements (fireproof blankets, first-aid kit, etc.) according to Directive 89/654/EC.

5.2

5.1

4.3

5.3

Other information

Additional provisions:

Respond in accordance with the Internal Emergency Plan and the Fact Sheets on Accident and Other Emergency Response. Remove all sources of ignition. In case of fire, refrigerate containers and storage tanks for products that may ignite and explode as a result of high temperatures. Avoid spilling products used to extinguish the fire in the aquatic environment.

5.4

### **SECTION 6: ACCIDENTAL RELEASE MESURES**

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

For non-emergency personnel

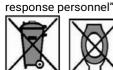
Ensure good ventilation.

No action should be taken that poses an individual risk or in the absence of appropriate training. Prevent unnecessary and unprotected personnel from entering. Do not touch or walk on spilled material. Avoid breathing dust or vapour. Provide adequate ventilation. Wear an appropriate respirator when ventilation is inadequate. Wear appropriate personal protective equipment. (See section 8)

For emergency responders

If specific clothing is required to handle the spill, refer to Section 8 for appropriate and inappropriate materials. See also the information contained in "For personnel other than

Environmental precautions



Avoid contamination of soil, sewers, surface water and groundwater. If this happens, inform the competent authorities.

### Methods and material for containment and cleaning up

6.3

6.2

For containment:

Sewer coverage

For cleaning up:

Stop the spill if it is safe to do so. Move containers out of spill area. Release as wind approaches. Prevent entry into sewers, waterways, basements or confined areas. Wash spills in an effluent treatment plant or proceed as follows: Contain and collect spills with non-combustible absorbent material such as sand, soil, vermiculite or diatomaceous soil and place in a container for disposal in accordance with local regulations (see section 13). Dispose of through a licensed waste disposal company. Contaminated absorbent may pose the same hazard as the spilled product.

Wash area with water.

Note: See Section 1 for emergency contact information and Section 13 for waste disposal.

Reference to other sections

Collect the remains in an identified container: see point 13 for disposal.

Personal protective equipment: see section 8 Withdrawal considerations: see section 13.

See section 1 for emergency contact information.

# 7 SECTION 7 : HANDLING AND STORAGE

Precautions for safe handling

Put on appropriate personal protective equipment (see section 8). Do not ingest. Avoid contact with eyes. Store in original container, out of direct sunlight, in a dry, cool, well-ventilated place, away from incompatible materials (see section 10), food and drink. Keep container tightly closed and sealed until time of use. Containers that have been opened must

6.4

be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Do not reuse containers. Use appropriate containment to prevent environmental contamination.

### Advice on professional hygiene in general:

It is prohibited to eat, drink or smoke in areas where this product is handled, stored or used. It is recommended that staff wash their hands and face before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering a food court. See also section 8 for more information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store upright in the original container away from direct sunlight in a dry, cool and well-ventilated place away from incompatible materials (see section 10). Keep under lock and key. Keep container upright, tightly closed when not in use. Containers that have been opened must be carefully closed again and kept in an upright position to prevent leaks. Do not store in unlabelled containers. Do not store in the presence of food products. Use an appropriate container to avoid contamination of the surrounding environment. Enclose storage facilities with containment dikes to prevent soil and water pollution in the event of a spill.

Specific end use(s)

No specific end uses.

7.3

8.1

7.2

Good practices: keep in closed containers. Close containers before and after each use to avoid sources of moisture or heat. Store in areas with waterproof pavement.

# SECTION 8: EXHIBITION CONTROLS/INDIVIDUAL PROTECTION

**Control parameters** 

Not applicable

Use good industrial hygiene practices.

8.2 Exposure controls

> Ingredient name **Exposure limits**

Calcium nitrate None Magnesium nitrate hexahydrate None Cobalt sulphate None

Appropriate engineering

controls

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Individual protection measures, such as personal protective equipment

No personal protection required. In general, use individual protections placed on the market in accordance with the provisions of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016.

Personal protective equipment must be adapted to the risk, kept clean and properly maintained in accordance with the provisions of the Labour Code.

Eye/face protection

Protective eyewear complying with an approved standard should be used when a risk assessment indicates that this is necessary to avoid exposure to splashes of liquids, mists, gases or dusts. In case of possible contact, wear the following protective eyewear unless the assessment indicates a higher degree of protection: safety glasses with side shields. If conditions require it, use safety glasses complying with the NF EN166 standard.

Skin protection

Hands: Wear suitable protective gloves in case of prolonged or repeated contact with the

product.

Chemical-resistant, impervious gloves complying with an approved standard (NF EN374) should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

**Appearance** Physical state: liquid

Color: Brown

Sweet vanilla

рΗ

Odour

Melting point Not available Freezing point Not available Initial boiling point Not available

and boiling range Flash point

Not available Evaporation rate Not available Flammability (solid, Not available gas)

Upper/lower flammability or explosive limits Vapour pressure

Not available

Not available Vapour density Not available Relative density

1.39 Solubility(ies) 20°C

Entirely Soluble in water

Partition coefficient: n-octanol/water **Auto-ignition** temperature Decomposition temperature

Not available

Not available

Not available Viscosity Not viscous

Explosive properties Not available Oxidising properties Not available

Refraction index Not available Rotary power Not available

9.2 Other information

No other information

# 10 SECTION 10: STABILITY AND REACTIVITY

Reactivity

No specific reactivity test data are available for this product or its components in normal

conditions of use.

Chemical stability
10.2 The product is stable at room temperature in closed packages and under normal storage and

handling conditions.

No hazardous polymerization can be produced by any of these components.

Possibility of hazardous 10.3 reactions

No risk of dangerous reactions under normal use and storage conditions.

Conditions to avoid

No special conditions to avoid. Comply with usual precautionary practices regarding

chemicals.

Incompatible materials Not available.

10.5

10.6

11

10.4

10.1

Hazardous decomposition

products

 $\label{thm:conditions} \mbox{ Under normal conditions of storage and use, hazardous decomposition products should not be}$ 

produced.

# SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

a) acute toxicity

Ingredient name Result Species Dose Exposure

Calcium nitrate LD50 Oral Rat 500 mg/kg -

Magnesium nitrate

hexahydrate LD50 Oral Rat 5440 mg/kg

Cobal sulphate LD50 Oral Rat 768 mg/kg -

(b) skin

corrosion/irritation;

Ingredient name Result Species Score Exposure Observation

Magnesium Eyes - Mild irritant Rabbit - 24 hours 500 mg - nitrate Skin - Mild irritant Rabbit - 24 hours 500 mg -

hexahydrate

There is no data available.

(c) serious eyedamage/irritation;(d) respiratory or skin

sensitisation;

(e) germ cell mutagenicity;

(f) carcinogenicity;

(g) reproductive toxicity;

(h) STOT-single exposure;

(i) STOT-repeated

exposure;

(j) aspiration hazard

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No known significant effects or critical hazards. Inhalation: No known significant effects or critical hazards. Skin exposure: No known significant effects or critical hazards.

Eye exposure: pain or irritation, watering, redness

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

No known significant effects or critical hazards.

Absence of specific

No known significant effects or critical hazards. No known significant effects or critical hazards.

data Mixtures

No known significant effects or critical hazards. No known significant effects or critical hazards.

Mixture versus substance information Other information

12

12.3

12.4

13.1

Comply with good industrial hygiene practices

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

12.1 **Toxicity** No data available to date to the best of our knowledge

12.2 Persistence and No data available to date to the best of our knowledge

degradability **Bioaccumulative** potential

No data available to date to the best of our knowledge

Mobility in soil

No data available to date to the best of our knowledge. Waste generation should be avoided or

minimized as much as possible, and the product should not be discharged into sewers or

waterways.

12.5 Results of PBT and vPvB assessment 12.6

There is no data available.

Other adverse effects No known significant effects or critical hazards.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods

The generation of waste should be avoided or minimised as much as possible. Disposal of this product, solutions and any sub-products should be in accordance with the requirements of environmental protection and waste disposal legislation and the requirements of regional local authorities. Dispose of excess and non-recyclable products through a licensed waste disposal contractor. Untreated waste should not be disposed into the sewer unless it fully complies with the requirements of all authorities having jurisdiction. Packaging waste should be recycled. Incineration or burial should be considered only when recycling is not possible. This product and its container should be disposed of in a safe manner. Completely empty the container. Keep the label on the container. Take to an approved waste disposal company.

Care must be taken when handling empty containers that have not been cleaned or rinsed. Empty containers or liners may contain product residue. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Waste codes / waste designations according to LoW:

Not applicable

#### **SECTION 14: TRANSPORT INFORMATION** 14

Non-hazardous transport. In the event of an accident and product spillage, proceed as described in point 6

**UN number** Not regulated. Non-hazardous transport

**UN proper shipping** 

14.2 name

14.1

Transport hazard

14.3 class(es)

> ADR **IMDG**

Not regulated. Non-hazardous transport

OACI/IATA

Packing group

14.4

14.5

14.6

**Environmental hazards** Nο

Special precautions for

user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an

accident or spillage.

Not available

Transport in bulk according to Annex II of 14.7

MARPOL73/78 and the

**IBC Code** 

15 **SECTION 15: REGULATORY INFORMATION** 

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

15.1

16.1

Reg. 1272/2008/CE

The product does not contain substances that can be classified as carcinogenic. 1 or 2

according to Reg.1272/2008/EC and subsequent updates.

Reg. 830/2015/CE

(REACH)

Not applicable

Special hazards

To our knowledge, no other national or governmental regulations apply.

15.2 **Chemical safety** assessment

Evaluation not carried out

# **SECTION 16: OTHER INFORMATION**

Abbreviations and acronyms:

ETA = Acute Toxicity Estimation

CLP = Regulation 1272/2008/EC on classification, labelling and packaging of substances and

mixtures

DNEL = Derived no-effect dose

DMEL = Derived no-effect dose

EUH = Specific hazard statement CLP CPSE = Predicted no-effect concentration

RRN = REACH registration number

PTB = Persistent, Toxic and Bioaccumulative

tPtB = Very persistent and very bioaccumulative

bw = Body mass

**Key literature** references and sources for data

Regulation (EC) 1907/2006 of the European Parliament (REACH)

Regulation (EC) 1272/2008 of the European Parliament (CLP) Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)

Regulation (EC) 453/2010 of the European Parliament Regulation (EC) 286/2011 of the

European Parliament (II Atp. CLP)

The Merck index. Ed. 10 Handling and chemical safety

Niosh - Register of toxic effects of chemical substances

INRS - Toxicological Data Sheet

Patty - Industrial hygiene and toxicology

N.I. Sax - Dangerous properties of Industrial Materials - 7 Ed., 1989

ECHA website

16.3 Indication of changes:

16.2

Date of revision: 03/01/2022

Previous version date: 25/08/2020

Version:2

Modification: Section 1.3, Company name

16.4 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

The indicated mixture does not require an SDS according to the REACH requirements. This sheet is for information purposes only.

This safety data sheet complies with the requirements set out in Reg. 830/2015/EU. It does not exempt the user from knowing and applying all the documents that govern his activity. The user will take under his responsibility the precautions related to the specific use of the product. All the regulatory requirements mentioned are simply intended to help the recipient to assume his responsibilities. This list should not be considered exhaustive. This data sheet supplements the technical instructions for use but does not replace them. The information in this safety data sheet has been compiled by Terra Aquatica based on its current knowledge (safety data sheet for the active ingredients compiled by the manufacturer and other bibliographical data) as of the date indicated. It is given in good faith. In addition, the user's attention is drawn to the possible risks involved when a product is used for purposes other than those for which it was created. The recipient must ensure that he is not liable for anything other than what is stated in the texts other than those mentioned.

The information describes the safety aspects of the product. It is not intended to guarantee specific properties.

It is the responsibility of our customers to observe the applicable regulations.