# according to Regulation (EC) No. 1907/2006 (REACH)



Trade name:

VITALIZE

Revision date : Date of print : 31.03-2015 03-04-2015 Version:

3.1.2

# 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

AB YELLOW

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

EC FERTILIZER: Mixture of micro-nutrients Boron(B), Copper(Cu), Molybdenum(Mo), Zinc(Zn)

Micro-nutrients (percentage by weight):

Boron(B) water-soluble: 0.2% Copper(Cu) water-soluble: 0.2% Molybdenum(Mo) water-soluble: 0.1%

Zinc(Zn) water-soluble: 1.5%

#### NON-HAZARDOUS COMPONENTS

Polyethylene Glycol: 44,4% Silicon Dioxide (hydrated): 5,1% H2O (Demi water): 48,5%

# Uses advised against

This product should not be used for purposes other than the applications referred to above.

1.3

#### **Details of distributor**

Mills Nutrients b.v.

Street: Aalsmeerderweg 249k

Postal code / City: 1432 CM Aalsmeer

Country: the Netherlands Mobil: 0031 (0)6 24512470 Telephone: 0031 (0)20 2233957 Web: www.Mills-nutrients.com

# 1.4 Emergency Telephone Number

0031 (0)20 2233957

# 2. Hazards identification

# 2.1 Classification of the substance or mixture

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Causes severe burns. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. C; R 35  $\cdot$  R 52/53

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

# Hazard classes and hazard categories

Skin Corr. 1A · Aquatic Chronic 3

**Physical hazards** 

Flammable Liquids: No classification

Health hazards

Skin Corrosion / Irritation: Category 1A

**Environmental hazards** 

Chronic aquatic toxicity: Category 3

Page: 1 / 8

# according to Regulation (EC) No. 1907/2006 (REACH)



Trade name: Revision date: Date of print :

VITALIZE 31.03-2015 03-04-2015

Version:

3.1.2

Skin Corr. 1A · Aquatic Chronic 3

Skin Corr. 1A; H314 - Skin corrosion/irritation: Category 1A; Causes severe skin burns and eye damage. Aquatic Chronic 3; H412 - Hazardous to the aquatic environment: Category 3; Harmful to aquatic life with long lasting effects.

## 2.2 Label elements

#### Labelling (67/548/EEC or 1999/45/EC)

#### Hazard symbols and hazard statements of dangerous substances and preparations

# R-phrases

35 52/53 Causes severe burns.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### S-phrases

61 1/2 Avoid release to the environment. Refer to special instructions / safety data sheet.

Keep locked up and out of the reach of children.

35 36/37/39 This material and its container must be disposed of in a safe way. Wear suitable protective clothing, gloves and eye/face protection.

64 45 If swallowed, rinse mouth with water (only if the person is conscious). In case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible).

# Labelling according to Regulation (EC) No. 1272/2008 [CLP] **Hazard pictograms**

#### Corrosion (GHS05)

# Signal word

Danger

#### **Hazard Statements**

H314 H412

Causes severe skin burns and eye damage.

Harmful to aquatic life with long lasting effects.

## **Precautionary statements**

P102

Keep out of reach of children.

P103

Read label before use.

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P310

Immediately call a POISON CENTER or doctor/physician.

P405

Store locked up.

P501

Dispose of contents/container to hazardous waste in accordance with local, state or national

legislation.

#### 2.3 Other hazards

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

#### 2.4 Additional information

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII

#### Composition/information on ingredients

#### 3.2 Mixtures

#### **Ingredients**

PEG 400; EC No: 500-038-2; CAS No.: 25322-68-3

AQUA; REACH registration No.: Annex IV; EC No: 231-791-2; CAS No.: 7732-18-5

Page: 2 / 8

# according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Revision date : VITALIZE 31.03-2015

Date of print :

03-04-2015

Version:

3.1.2

POTASSIUM CHLORIDE; EC No: 231-211-8; CAS No.: 7447-40-7

ZINC CHLORIDE; EC No: 231-592-0; CAS No.: 7646-85-7

Classification 67/548/EEC:

N; R50/53 C; R34 Xn; R22

Classification 1272/2008 [CLP]:

Skin Corr. 1B; H314 Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1;

H410

BORIC ACID; EC No: 233-139-2; CAS No.: 10043-35-3

Classification 67/548/EEC:

Repr. Cat.2; R60 Repr. Cat.2; R61

Classification 1272/2008 [CLP]:

Repr. 1A; H360FD

COPPER-II-SULFAT-5-HYDRAT; EC No: 231-847-6; CAS No.: 7758-99-8

Classification 67/548/EEC:

N; R50/53 Xn; R22 Xi; R36/38

Classification 1272/2008 [CLP]:

Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Acute 1; H400

Aquatic Chronic 1; H410

SODIUM MOLYBDATE DIHYDRATE; EC No: 231-551-7; CAS No.: 10102-40-6

Classification 67/548/EEC:

Xn; R20/21/22 Xi; R36/37/38

Classification 1272/2008 [CLP]:

Acute Tox. 3; H311 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315

Eye Irrit. 2; H319 STOT SE 3; H335

#### Additional information

Full text of R-, H- and EUH-phrases: see section 16.

#### 4. First aid measures

#### 4.1 Description of first aid measures

#### **General information**

When in doubt or if symptoms are observed, get medical advice.

# After inhalation

No special measures are necessary.

#### In case of skin contact

Wash immediately with: Water and soap. Change contaminated, saturated clothing. Wash contaminated clothing prior to re-use.

#### After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

#### After ingestion

Call a physician in any case! Do not induce vomiting. If major quantitiy of dust is swallowed or inhaled, immediately drink: Water

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

The following symptoms may occur: No known symptoms to date. Repeated exposure may cause skin dryness or cracking.

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

## 5. Firefighting measures

Page: 3 / 8

# according to Regulation (EC) No. 1907/2006 (REACH)



Trade name:

VITALIZE

Revision date : Date of print : 31.03-2015

03-04-2015

Version:

3.1.2

# 5.1 Extinguishing media

None

# 5.2 Special hazards arising from the substance or mixture

None

### 5.3 Advice for firefighters

None

#### 5.4 Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### 6. Accidental release measures

# 6.1 Personal precautions, protective equipment and emergency procedures

## For non-emergency personnel

#### Protective equipment

Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### **Emergency procedures**

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

#### 6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

#### For containment

Collect in closed and suitable containers for disposal. Treat the recovered material as prescribed in the section on waste disposal.

## For cleaning up

Suitable material for taking up: Sand. Absorbing material, organic.

## 6.4 Reference to other sections

See protective measures under point 7 and 8.

#### 7. Handling and storage



# 7.1 Precautions for safe handling

None

## 7.2 Conditions for safe storage, including any incompatibilities

# Technical measures and storage conditions

Keep/Store only in original container. Suitable container/equipment material: Stainless steel. Polyethylene (PE) Unsuitable container/equipment material: Butyl caoutchouc (butyl rubber).

#### Hints on storage assembly

Storage class: 8B

Storage class (TRGS 510): 8B

#### 7.3 Specific end use(s)

None

Page: 4/8

# according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Revision date :

VITALIZE

Date of print :

31.03-2015 03-04-2015 Version:

3.1.2

# 8. Exposure controls/personal protection

# 8.1 Control parameters

#### Occupational exposure limit values

POLYETHYLENE GLYKOLS > 400 ; CAS No. : 25322-68-3 Limit value type (country of origin) : TRGS 900 ( D ) Parameter : E: respirable fraction

Limit value :

1000 mg/m<sup>3</sup> 8(II)

Peak limitation : Remark :

Υ Υ

Version: 01-03-2011

BORIC ACID; CAS No.: 10043-35-3

Limit value type (country of origin): TRGS 900 ( D )

Limit value: 0,5 mg/m³

Peak limitation: 2(I)

Remark: Y

Version:

01-03-2011

#### 8.2 Exposure controls

#### Personal protective equipment





#### Eye / face protection

Eye glasses with side protection

#### Skin protection

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. DIN-/EN-Norms DIN EN 374 DIN EN 420 Suitable material NBR (Nitrile rubber). PVA (Polyvinyl alcohol). PVC (Polyvinyl chloride)

## **General health and safety measures**

Immediately remove any contaminated clothing, shoes or stockings. Wash contaminated clothing prior to re-use.

# **Environmental exposure controls**

See chapter 7. No additional measures necessary.

# 9. Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

#### **Odour threshold**

No data available

#### Safety relevant basis data

Physical state: liquid Colour: light green acidic Odour: Boiling temperature/boiling range: (1013 hPa) No data available No data available Flash point: Vapour pressure : (50 °C) No data available 1 - 1,1 Density: (20°C) g/cm<sup>3</sup>

Page: 5 / 8

# according to Regulation (EC) No. 1907/2006 (REACH)



Trade name:

VITALIZE

Revision date: Date of print :

31.03-2015

03-04-2015

Version:

3.1.2

Solvent separation test:

(20°C)

No data available

< 1,5

pH value: 9.2 Other information

None

# 10. Stability and reactivity

# 10.1 Reactivity

not applicable

#### 10.2 Chemical stability

Stable under normal conditions of use

#### 10.3 Possibility of hazardous reactions

No information available.

#### 10.4 Conditions to avoid

No information available.

#### 10.5 Incompatible materials

Strong oxidizers

## 10.6 Hazardous decomposition products

No information available.

# 11. Toxicological information

# 11.1 Information on toxicological effects

# **Irritant and corrosive effects**

Primary irritation to the skin

Irritant.

#### **Irritation to eyes**

Irritant.

# Irritation to respiratory tract

No data available

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

#### Carcinogenicity

This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

# Germ cell mutagenicity/Genotoxicity

No indications of human germ cell mutagenicity exist.

#### Reproductive toxicity

This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

## Specific target organ toxicity (single exposure)

#### Specific target organ toxicity (repeated exposure)

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.

# 12. Ecological information

### 12.1 Toxicity

Harmless to aquatic organisms up to the tested concentration

Page: 6 / 8

# according to Regulation (EC) No. 1907/2006 (REACH)



Trade name:

VITALIZE

Revision date: Date of print :

31.03-2015 03-04-2015 Version:

3.1.2

# 12.2 Persistence and degradability

Biodegradable.

## 12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII

#### 12.6 Other adverse effects

#### 12.7 Further ecological information

# 13. Disposal considerations

#### 13.1 Waste treatment methods

Delivery to an approved waste disposal company. Contaminated packages must be completely emptied and can be reused following proper cleaning. Handle contaminated packages in the same way as the substance itself.

# 14. Transport information

### 14.1 UN number

The product isn't dangerous for this category

#### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

The product isn't dangerous for this category

#### Sea transport (IMDG)

The product isn't dangerous for this category

### Air transport (ICAO-TI / IATA-DGR)

The product isn't dangerous for this category

**14.3** Transport hazard class(es)
The product isn't dangerous for this category

#### 14.4 Packing group

The product isn't dangerous for this category

#### 14.5 Environmental hazards

Land transport (ADR/RID): No

Sea transport (IMDG): No

Air transport (ICAO-TI / IATA-DGR): No

## 14.6 Special precautions for user

# 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

# 15. Regulatory information

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

Page: 7 / 8

# according to Regulation (EC) No. 1907/2006 (REACH)



Trade name:

VITALIZE

Revision date: Date of print :

31.03-2015 03-04-2015 Version:

3.1.2

**National regulations** 

Water hazard class (WGK)

Class: 2 (Hazardous to water) Classification according to VwVwS

15.2 Chemical safety assessment

Chemical safety assessments for substances in this preparation were not carried out.

#### 16. Other information

# 16.1 Indication of changes

None

#### 16.2 Abbreviations and acronyms

# 16.3 Key literature references and sources for data

# 16.5 Relevant R-, H- and EUH-phrases (Number and full text) Harmful if swallowed.

H302

H314 Causes skin burns and eye damage.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

22

Harmful if swallowed.

34

Causes burns.

36/38

Irritating to eyes and skin.

52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

# 16.6 Training advice

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.