

VALAGRO SDS according to to HSNO Regulations – NZ EPA

Revision date: 17/09/2021      version number: 1.3

Product: MICRO NP

Code: 1832

Print Date: September 17, 2021

## SAFETY DATA SHEET

### MICRO NP

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

##### 1.1. Product identifier

Product form : Mixtures  
Product name : MICRO NP  
Product code : 1832

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

###### 1.2.1. Relevant identified uses

Use of the substance/mixture : Fertilizer

###### 1.2.2. Uses advised against

No additional information available

##### 1.3. Details of the supplier of the safety data sheet

AGRITRADE  
1 Robin Mann Place  
Christchurch Airport  
Christchurch 8053  
New Zealand  
Ph 03 341 4587  
Fax 03 341 4584  
Free Phone 0800 333 855  
[agritrade@nzagritrade.co.nz](mailto:agritrade@nzagritrade.co.nz)

##### 1.4. Emergency telephone number

Emergency number : 24 Hour Emergency Contact: 0800  
CHEMCALL (0800 243622)

NZ POISON CENTRE CONTACT : 111 Police, Ambulance and Fire Brigade  
(available in New Zealand only)  
0800 764 766 (National Poisons  
Information Centre)

#### SECTION 2: Hazards identification

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

Classification according to the Hazardous Substances (Classification) Notice 2020, New Zealand:

###### HSNO Classification:

8.3A - Substances that are corrosive to ocular tissue  
9.1C - Substances that are harmful in the aquatic environment (Chronic)

###### Hazard statement codes

H318 - Causes serious eye damage  
H412 - Harmful to aquatic life with long lasting effects

###### Precautionary statement codes – Prevention:

P101 If medical advice is needed, have product container or label at hand  
P102 - Keep out of reach of children.  
P103 Read label before use  
P273 - Avoid release to the environment  
P280 - Wear protective gloves, eye protection, face shield

###### Precautionary statement codes – Response:

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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 or a doctor/physician

**Precautionary statement codes – Disposal:**

P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

**2.2. Label elements**

Hazard pictograms (CLP) :



Signal word (CLP) : Danger

**2.3. Other hazards**

No additional information available

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

**3.1. Substances**

Not applicable

**3.2. Mixtures**

Name	Product identifier	%	Approval Status (NZIoC)
Superphosphates, concentrated	(CAS No) 65996-95-4	>= 25 - < 30	HSNO Approval Code HSR007344
Calcium sulfate	(CAS No) 7778-18-9	>= 20 - < 25	Approved for use as a component in a product covered by the group standard disclosed in section 15.
zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate)	(CAS No) 7446-19-7	>= 0.5 - < 1%	HSNO Approval Code HSR003733
Other ingredients not subject to the provisions of the Hazardous Substances (identification) Regulations 2001, make up the product concentration to 100%			

Full text of H-statements: see section 16

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

- First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. Seek medical advice.
- First-aid measures after skin contact : Remove contaminated clothing immediately and dispose of safely. Wash skin thoroughly with mild soap and water. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye.

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First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Give water to drink if victim completely conscious/alert. Do not induce vomiting. Obtain medical attention or call a POISON CENTER (Ph: Australia 131 126; New Zealand 0800 764 766).

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

Symptoms/injuries after inhalation : Inhalation may cause irritation, cough, shortness of breath. Inhalation of fumes or vapours may cause respiratory irritation. Corrosive to the respiratory tract.

Symptoms/injuries after skin contact : Frequent or prolonged contact with skin may cause dermal irritation. Symptoms include redness, itching, and burning of the skin.

Symptoms/injuries after eye contact : Causes serious eye damage. Pain, redness, itching, tears.

Symptoms/injuries after ingestion : May cause gastric irritation. Vomiting, stomach pain.

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

No additional information available

### SECTION 5: Fire-fighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>). Water.

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

Fire hazard : Do not breathe fumes.

Hazardous decomposition products in case of fire : carbon oxides (CO and CO<sub>2</sub>). Phosphorus oxides. Sulfur oxides. Nitrogen oxides.

#### 5.3. Advice for firefighters

Precautionary measures fire : Evacuate the personnel away from the fumes.

Firefighting instructions : Move undamaged containers from immediate hazard area if it can be done safely.

Protective equipment for firefighters : Extra personal protection: complete protective clothing including self-contained breathing apparatus.

Other information : Do not allow run-off from fire fighting to enter drains or water courses.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Protective equipment : Do not attempt to take action without suitable protective equipment. Wear suitable protective clothing, gloves and eye/face protection.

Emergency procedures : Alert emergency personnel. Eliminate all ignition sources if safe to do so. Provide adequate ventilation.

Measures in case of dust release : Dust production: dust mask with filter type P2.

##### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray. Dust production: dust mask with filter type P2.

Emergency procedures : Evacuate unnecessary personnel. Avoid generation of dust. Dust may form explosive mixture in air. Eliminate all ignition sources if safe to do so.

#### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

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

For containment : Stop leak if safe to do so.

Methods for cleaning up : Ventilate affected area. Wear personal protection equipment. Minimize generation of dust. Wash with plenty of soap and water. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Consult the appropriate authorities about waste disposal.

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Other information : Do not allow uncontrolled discharge of product into the environment.

#### 6.4. Reference to other sections

For disposal of residues refer to section 13 : Disposal considerations. For further information refer to section 8: "Exposure controls/personal protection".

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust, fume, mist, vapours. Minimize generation of dust. Keep away from sources of ignition - No smoking. Do not re-use empty containers without proper cleaning or reconditioning.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

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

Storage conditions : Keep in original containers. Store tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight. Use care during processing to minimize generation of dust. Explosive dust-air mixtures may form.

Incompatible products : Strong bases. Strong acids. Oxidising agents. reducing agents.

Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition.

Information on mixed storage : Keep away from food, drink and animal feeding stuffs.

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Superphosphates, concentrated- (65996-95-4)		
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

Calcium sulfate (7778-18-9)		
Austria	MAK (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (respirable fraction)
Austria	MAK Short time value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (respirable fraction)
Belgium	Limit value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
France	VME (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> (respirable fraction)
Hungary	AK-érték	6 mg/m <sup>3</sup> (respirable dust)
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	30 mg/m <sup>3</sup> (calculated)
Latvia	OEL TWA (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup> (hydrogenated-plaster dust)
Portugal	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable fraction)
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>
Slovenia	OEL TWA (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> (respirable fraction)
Spain	VLA-ED (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (this value is for the particulate matter that is free from Asbestos and contains less than 1% of crystalline Silica)
Switzerland	VME (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (respirable dust)
New Zealand	WES (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (containing no asbestos and <1% crystalline silica-inhalable dust)

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<b>Calcium sulfate (7778-18-9)</b>		
Australia	TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (containing no asbestos and <1% crystalline silica-inhalable dust)
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (containing no Asbestos and <1% Crystalline silica-total dust) 5 mg/m <sup>3</sup> (containing no Asbestos and <1% Crystalline silica-respirable dust)
USA - ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable particulate matter)
USA - NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)
USA - OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)

<b>Superphosphates, concentrated- (65996-95-4)</b>	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	17.4 mg/kg bodyweight/day
Acute - systemic effects, inhalation	3.1 mg/m <sup>3</sup>
Acute - local effects, inhalation	3.1 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	17.4 mg/kg bodyweight/day
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	10.4 mg/kg bodyweight
Acute - systemic effects, inhalation	0.9
Acute - systemic effects, oral	2.1 mg/kg bodyweight
Long-term - systemic effects, inhalation	0.9 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	10.4 mg/kg bodyweight/day

<b>zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate) (7446-19-7)</b>	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	8.3 mg/kg bodyweight/day
Acute - systemic effects, inhalation	1 mg/m <sup>3</sup>
Long-term - local effects, dermal	8.3
Long-term - systemic effects, inhalation	1 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	1.3 mg/m <sup>3</sup>
Acute - systemic effects, oral	0.83 mg/kg bodyweight
Long-term - systemic effects, inhalation	1.3 mg/m <sup>3</sup>
PNEC (Water)	
PNEC aqua (freshwater)	0.02 mg/l (Derived for Zinc ion)
PNEC aqua (marine water)	0.006 mg/l (Derived for Zinc ion)
PNEC (Sediment)	
PNEC sediment (freshwater)	117.8 mg/kg dwt (Derived for Zinc ion)
PNEC sediment (marine water)	56.5 mg/kg dwt (Derived for Zinc ion)
PNEC (Soil)	
PNEC soil	35.6 mg/kg dwt (Derived for Zinc ion)
PNEC (STP)	
PNEC sewage treatment plant	0.05 mg/l (Derived for Zinc ion)

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## 8.2. Exposure controls

### Appropriate engineering controls:

Provide adequate ventilation.

### Personal protective equipment:

Safety glasses. Gloves. Protective clothing. Dust production: dust mask with filter type P2.

### Materials for protective clothing:

Rubbers. PVC (Polyvinyl chloride). Natural fibres (e.g. cotton)

### Hand protection:

Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Break through time:  $\geq 480$  min. Thickness of glove material: 0.7 mm. Protective gloves made of rubber or PVC

### Eye protection:

Wear eye glasses with side protection according to EN 166.

### Skin and body protection:

Chemical resistant protective apron/clothing (tested to EN 14605 or equivalent)

### Respiratory protection:

Wear a respirator conforming to EN140 with Type A/P2 filter or better. particle filter device (DIN EN 143)



### Environmental exposure controls:

Do not allow into drains or water courses. Do not allow to enter into soil/subsoil.

## SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Appearance	: Granular solid.
Colour	: brown.
Odour	: None.
Odour threshold	: No data available
pH	: No data available
pH solution	: 4 1% (t = 20°C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: not applicable, solid
Flash point	: not applicable, solid

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Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: not applicable, solid
Vapour pressure at 50 °C	: not applicable, solid
Relative vapour density at 20 °C	: not applicable, solid
Relative density	: No data available
Density	: 1 kg/l
Solubility	: insoluble in: Water.
Log Pow	: No data available
Viscosity, kinematic	: not applicable, solid
Viscosity, dynamic	: No data available
Explosive properties	: Not expected to be explosive as none of the components is classified as explosive.
Oxidising properties	: None of the components are classified for oxidizing properties.
Explosive limits	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Ma react with urea to form urea-phosphate.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

None under normal conditions. No polymerization.

#### 10.4. Conditions to avoid

Overheating. Avoid generation of dust.

#### 10.5. Incompatible materials

Do not mix with alkali. Urea.

#### 10.6. Hazardous decomposition products

During a fire: Carbon oxides (CO, CO<sub>2</sub>). Phosphorus oxides. Sulfur oxides. Nitrogen oxides.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Superphosphates, concentrated- (65996-95-4)	
LD50 oral rat	> 2000 mg/kg (OECD 425 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)

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<b>Superphosphates, concentrated- (65996-95-4)</b>	
LC50 inhalation rat (mg/l)	> 5 mg/l/4h (OECD 403 method)

<b>zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate) (7446-19-7)</b>	
LD50 dermal rat	> 2000 Van Huygevoort (1999a)

Skin corrosion/irritation	: Not classified (Conclusive but not sufficient for classification)
Additional information	: (OECD 439)
Serious eye damage/irritation	: Causes serious eye damage.
Additional information	: (OECD 437 method)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

<b>Superphosphates, concentrated- (65996-95-4)</b>	
NOAEL (subacute, oral, animal/male, 28 days)	250 mg/kg bodyweight (OECD 422 method)

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>Superphosphates, concentrated- (65996-95-4)</b>	
LC50 fish 1	> 85.9 mg/l (OECD 203 method)
EC50 Daphnia 1	1790 mg/l 72h
EC50 72h Algae [mg/l] (1)	> 87.6 mg/l (OECD 201 method)
NOEC (acute)	100 mg/l (OECD 309 method)

<b>zinc sulphate (hydrous) (mono-, hexa- and hepta hydrate) (7446-19-7)</b>	
EC50 other aquatic organisms 1	1.82 mg/l (48h, C. dubia) - EPA 821-R-02-012 Ref.: Hyne et al 2005
EC50 72h Algae [mg/l] (1)	3.73 mg/l (72h, Selenastrum capricornutum) - OCSE 201; Ref.: Van Ginneken, 1994

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

<b>MICRO NP</b>	
Bioaccumulative potential	Product does not contain any bioaccumulative substance.

### 12.4. Mobility in soil

<b>MICRO NP</b>	
Mobility in soil	In general, the mobility in the soil of the microelements in the mixture is influenced by several factors such as pH, CO <sub>2</sub> concentration, redox conditions, and availability of organic and inorganic complexing agents.
Ecology - soil	If product enters soil, it will be mobile and may contaminate groundwater.



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

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

**12.6. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Waste treatment methods : Reuse or recycle following decontamination. External recovery and recycling of waste should comply with applicable local and/or national regulations.

**SECTION 14: Transport information**

In accordance with ADR / IATA / IMDG / RID / NZS 5433:2012 Transport of Dangerous Goods on Land

ADR	IMDG	IATA	ADN	NZS5433:2012
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

**14.6. Special precautions for user**

**- Overland transport**

Not applicable

**- Transport by sea**

Not applicable

**- Air transport**

Not applicable

**- Inland waterway transport**

Number of blue cones/lights (ADN) : 0

**- Rail transport**

No data available

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable

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## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions  
 Contains no substance on the REACH candidate list  
 Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

##### New Zealand

Classification : Classified as hazardous according to the Hazardous Substances (Classification) Notice 2020, New Zealand  
 HSNO Approval Number (Group Standard) : HSR002571. Fertiliser (Subsidiary Hazard) Group Standard 2006

##### Germany

VwVwS Annex reference : Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)  
 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : Superphosphates, concentrated- is listed  
 SZW-lijst van mutagene stoffen : Superphosphates, concentrated- is listed  
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed  
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed  
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

##### Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

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Abbreviations and acronyms:

SDS	Safety Data Sheet
	CAS - Chemical Abstracts Service
	GHS - Globally Harmonised System
	CSR - Chemical Safety Report
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development

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RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
	PVC (Polyvinyl chloride).
PNEC	Predicted No-Effect Concentration
PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

Other information : This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H302	Harmful if swallowed
H318	Causes serious eye damage
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

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

Eye Dam. 1	H318	Calculation method
Aquatic Chronic 3	H412	Calculation method

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