

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

### 1.1. Product identifier

Product form : Mixture  
Trade name : Valida S+ CS-3

### 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 : Multifunctional stabilizer for particles like beads, encapsulated perfumes, actives, exfoliants, TiO<sub>2</sub>, ZnO, fabric softeners, foams, co-thickener, protective colloid, skin sensory enhancer

#### 1.2.2. Uses advised against

No additional information available

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

Sappi Maastricht BV  
Biesenweg 16  
6211 AA Maastricht  
The Netherlands  
Phone: +31 (0) 43 3822761  
Email: Valida@sappi.com

### 1.4. Emergency telephone number

Emergency number : 112 (24 hour service) – applicable to EU countries only

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Not classified

**Adverse physicochemical, human health and environmental effects**

No additional information available

### 2.2. Label elements

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

No labelling applicable

### 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 2015/830

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS-No.) 7732-18-5 (REACH-no) Exempt	95.4 - 97.2	Not classified
Cellulose	(CAS-No.) 9004-34-6 (REACH-no) Exempt	2.5 - 3.5	Not classified
Cellulose gum	(CAS-No.) 9004-32-4 (REACH-no) Exempt	0.1 - 0.4	Not classified
Sodium benzoate	(CAS-No.) 532-32-1 (REACH-no) Not relevant	0.1 - 0.5	Eye Irrit. 2 (H319)
Citric acid	(CAS-No.) 77-92-9 (REACH-no) 01-2119457026-42	0.1 - 0.2	Eye Irrit. 2 (H319)

Comments : The actual composition is specified in the Technical Data Sheet

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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. If exposure symptoms persist, seek medical advice.

First-aid measures after skin contact : Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In all cases of doubt, or when symptoms persist, seek medical advice.

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to an unconscious person. Seek medical attention if ill effect or irritation develops.

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

Symptoms/effects after inhalation : Inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.

Symptoms/effects after eye contact : May cause slight temporary irritation.

Symptoms/effects after ingestion : May cause gastric irritation.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical powder, foam.

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

Fire hazard : None known.

Explosion hazard : None known.

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

### 5.3. Advice for firefighters

Firefighting instructions : Cool down the containers exposed to heat with a water spray. Move undamaged containers from immediate hazard area if it can be done safely. Fight fire with normal precautions from a reasonable distance. Evacuate area.

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

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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 : Wear suitable protective clothing, gloves and eye/face protection.  
Emergency procedures : Immediately contact emergency personnel.

##### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye/face protection.  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so. Remove all sources of ignition.

#### 6.2. Environmental precautions

Do not discharge into drains or the environment.

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

For containment : Stop leak if safe to do so.  
Methods for cleaning up : Wipe up with absorbent material (for example cloth).

#### 6.4. Reference to other sections

See Section 1 for emergency contact information; For further information refer to section 8: "Exposure controls/personal protection"; For disposal of residues refer to section 13 : "Disposal considerations"

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety practice..  
Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

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

Storage conditions : Store in a dry, cool and well-ventilated place. Keep in original containers closed.  
Incompatible products : None known.  
Storage temperature : Preferably store in a refrigerator in order to prevent mold formation.  
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

Cellulose (9004-34-6)	
<b>Austria - Occupational Exposure Limits</b>	
MAK (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> PAPIER (LEICHTSTAUB VON), EINATEMBARE FRAKTION
OEL - Ceilings (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> PAPIER (LEICHTSTAUB VON), EINATEMBARE FRAKTION
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Cellulose # Cellulose
Limit value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Regulatory reference	Koninklijk besluit/Arrêté royal 02/09/2018

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<b>Cellulose (9004-34-6)</b>	
<b>Croatia - Occupational Exposure Limits</b>	
Local name	Celuloza
GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total dust, inhalable particles) 4 mg/m <sup>3</sup> (respirable dust)
KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (total dust, inhalable particles)
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 91/2018)
<b>Czech Republic - Occupational Exposure Limits</b>	
Expoziční limity (PEL) (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> Jiné prachy s dráždivým účinkem: prach papíru
<b>Denmark - Occupational Exposure Limits</b>	
Grænseværdie (langvarig) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> ORGANISK STØV, TOTAL
<b>Estonia - Occupational Exposure Limits</b>	
Local name	Tselluloos (peentolm)
OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (respirable dust)
OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (respirable dust)
Regulatory reference	Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293 (RT I, 30.11.2011, 5)
<b>Finland - Occupational Exposure Limits</b>	
HTP-arvo (8h) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> Selluloosapöly
OEL Ceiling (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> Selluloosapöly
<b>France - Occupational Exposure Limits</b>	
Local name	Cellulose (fibre de papier)
VME (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Cellulose
OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018
<b>Italy - Occupational Exposure Limits</b>	
Local name	Cellulosa
OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Celuloze
OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325
<b>Lithuania - Occupational Exposure Limits</b>	
Local name	Popieriaus Dulkės
IPRV (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Celulose
OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>

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<b>Cellulose (9004-34-6)</b>	
Regulatory reference	Norma Portuguesa NP 1796:2014
<b>Romania - Occupational Exposure Limits</b>	
Local name	Celuloză
OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (dust, inhalable fraction)
Regulatory reference	Hotărârea nr. 1218/2006
<b>Spain - Occupational Exposure Limits</b>	
Local name	Celulosa
VLA-ED (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Cellulose
WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> inhalable dust 4 mg/m <sup>3</sup> respirable
WEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> inhalable dust
Regulatory reference	EH40/2005 (Third edition, 2018). HSE
<b>Switzerland - Occupational Exposure Limits</b>	
Local name	Cellulose / Zellulose
MAK (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (respirable dust)
Critical toxicity	VRS / OAW
Remark	NIOSH
Regulatory reference	www.suva.ch, 01.07.2019
<b>Citric Acid (77-92-9)</b>	
Contains no substances with occupational exposure limit values. Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:	
Citric acid	Fresh water Value: 0,44 mg/l Marine water Value: 0,044 mg/l Fresh water sediment Value: 7,52 mg/kg wet weight Marine sediment Value: 0,752 mg/kg wet weight Soil Value: 29,2 mg/kg wet weight
<b>Sodium benzoate (532-32-1)</b>	
Occupational exposure limits (OEL):	

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Chemical Name	EU OELV	EU IOELV	ACGIH - TWA/Ceiling	ACGIH - STEL
Sodium benzoate	N/E	N/E	N/E	N/E
Chemical Name	UK WEL		Ireland OEL	
Sodium benzoate	N/E		N/E	

N/E=Not established (no exposure limits established for the listed substances for listed country/region/organization).

Derived No Effect Levels (DNELs):

Sodium benzoate

Population Route Acute (local) Acute (systemic) Long Term (local) Long Term (systemic)

Workers Inhalation N/E N/E 0,1 mg/m<sup>3</sup> 3 mg/m<sup>3</sup>

Workers Dermal N/E N/E N/E 62,5 mg/kg bw/day

General population Inhalation N/E N/E 0,06 mg/m<sup>3</sup> 1,5 mg/m<sup>3</sup>

General population Dermal N/E N/E 31,25 mg/kg bw/day N/E

General population Oral N/E N/E N/E 16,6 mg/kg bw/day

Predicted No Effect Concentration (PNECs):

Sodium benzoate

Compartment PNEC

Freshwater 0,13 mg/L

Freshwater sediment 1,76 mg/kg dw

Marine water 0,013 mg/L

Marine water sediment 0,176 mg/kg dw

Intermittent releases 305 ug/L

Soil 0,276 mg/kg dw

STP 10 mg/L

Oral 300 mg/kg food

N/E=Not established; N/A=Not applicable (not required); bw=body weight; dw=dry weight; ww=wet weight.

## 8.2. Exposure controls

### Appropriate engineering controls:

Provide adequate ventilation.

### Personal protective equipment:

Gloves. Protective goggles.

#### Hand protection:

The product is not classified as a skin irritant, but use of gloves is recommended. EN 374

#### Eye protection:

Wear safety goggles if there is a risk of eye splash. Tightly fitting safety goggles. EN 166

#### Skin and body protection:

Not required

#### Respiratory protection:

Not required

### Personal protective equipment symbol(s):



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### Environmental exposure controls:

No special environmental precautions required.

### Other information:

Handle in accordance with good industrial hygiene and safety procedures.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Paste
Colour	: Off-white.
Odour	: Barely perceptible.
Odour threshold	: No data available
pH	: 4-6
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: $\approx 0$ °C
Freezing point	: No data available
Boiling point	: $\approx 100$ °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: $\approx 0.8$
Relative density	: 1.005 g/cm <sup>3</sup>
Solubility	: Water: Non-soluble. Dispersible/miscible
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 0.5 – 1.04 Pa·s @ 25 °C
Explosive properties	: No data available
Oxidising properties	: Not oxidizing.
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

None known. Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Oxidizing agents

### 10.6. Hazardous decomposition products

None known.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified pH: 4-6
Serious eye damage/irritation	: Not classified pH: 4-6
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
Aspiration hazard	: Not classified

#### Sodium benzoate (532-32-1)

LD50 oral rat	6166 mg/kg bodyweight OECD 401
LD50 dermal rat	> 2000 mg/kg bodyweight OECD 402
LC50 inhalation rat (mg/l)	> 7015 mg/m <sup>3</sup> OECD 403

#### Citric Acid (77-92-9)

LD50 oral rat	2240 mg/kg OECD 401
LD50 dermal rabbit	> 2000 mg/kg OECD 402

### SECTION 12: Ecological information

#### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

#### Sodium benzoate (532-32-1)

LC50 fish 1	>100 mg/L (96 hours)
EC50 Invertebrates	>100 mg/L (96 hours)
EC50 72h algae (1)	>30.5 mg/L (72 hours)

#### Citric Acid (77-92-9)

LC50 fish 1	440 mg/l, OECD Test Guideline 203
LC50 Daphnia magna (Water flea)	1.535 mg/l
NOEC (Scenedesmus quadricauda (Green algae))	425 mg/l
TT (Pseudomonas putida):	> 10.000 mg/l



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### 12.2. Persistence and degradability

Cellulose is inherently biodegradable.

#### Sodium benzoate (532-32-1)

Persistence and degradability	Readily biodegradable.
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#### Citric Acid (77-92-9)

Persistence and degradability	Biodegradation: 100 % Method: OECD Test Guideline 301E Readily biodegradable.
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### 12.3. Bioaccumulative potential

#### Sodium benzoate (532-32-1)

Partition coefficient n-octanol/water (Log Pow)	1.88 (Benzoic acid)
Bioaccumulative potential	Readily biodegradable.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### Valida S+ CS-3

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

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

#### Component

Sodium benzoate (532-32-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Citric Acid (77-92-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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

Not applicable

#### Rail transport

Not applicable

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

Not applicable

## 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

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

##### Germany

Water hazard class (WGK)

: WGK nwg, Non-hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV)

: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen

: None of the components are listed

SZW-lijst van mutagene stoffen

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting

: None of the components are listed

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

: None of the components are listed

giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

: None of the components are listed

giftige stoffen – Ontwikkeling

#### International Inventories

TSCA

All components are listed on the TSCA Inventory

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DSL/NDSL	All components of this product are in compliance with the inventory listing requirements of the Canadian Domestic Substances List (DSL) or are not required to be listed
EINECS/ELINCS ENCS	All ingredients are on the inventory or exempt from listing Except for CAS 9004-32-4 All ingredients are on the inventory or exempt from listing Except for CAS 9004-32-4
IECSC	All ingredients are on the inventory or exempt from listing
KECL	All ingredients are on the inventory or exempt from listing
PICCS	All ingredients are on the inventory or exempt from listing
AICS	All ingredients are on the inventory or exempt from listing

### 15.2. Chemical safety assessment

Europe REACH (EC) 1907/2006: Not relevant for uses within the scope of the Biocidal Products Regulation (BPR, Regulation (EU) 528/2012).

EU Authorizations and/or restrictions on use: Not Applicable

Other EU information: Biocidal Products Regulation (BPR, Regulation (EU) 528/2012):

Authorised use: Authorised to be used as preservative (PT6) against bacteria and yeast in detergents such as dishwash cleaners, liquid laundry detergent or cleaners. The product is only intended for industrial use.

### SECTION 16: Other information

Abbreviations and acronyms:	
SDS	Safety Data Sheet
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
OECD	Organisation for Economic Co-operation and Development
NOEC	No-Observed Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
LD50	Median lethal dose
LC50	Median lethal concentration
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
EC50	Median effective concentration
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
BCF	Bioconcentration factor
ATE	Acute Toxicity Estimate
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
PNEC	Predicted No-Effect Concentration
vPvB	Very Persistent and Very Bioaccumulative
PBT	Persistent Bioaccumulative Toxic
DNEL	Derived-No Effect Level

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.

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Full text of H- and EUH-statements:	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H319	Causes serious eye irritation.

SDS EU (REACH Annex II)

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.