

## RENOVA perform 8 kg

WM 0712854

Order number: 0712854

Version 4.0

Revision Date 08.05.2020

Print Date 24.08.2020

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

#### 1.1 Product identifier

Trade name : RENOVA perform 8 kg  
Identification number : 61247

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

Use of the Substance/Mixture : Cleaning agent  
Restricted to professional users.

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

Company : Tana Chemie GmbH  
Rheinallee 96  
55120 Mainz  
Telephone : +49613196403  
Telefax : +4961319642414  
E-mail address : Produktsicherheit@werner-mertz.com  
Responsible/issuing person  
Contact person : Product development / product safety

#### 1.4 Emergency telephone number

112  
+49(0)6131-19240

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1 H314: Causes severe skin burns and eye damage.

Serious eye damage, Category 1 H318: Causes serious eye damage.

Long-term (chronic) aquatic hazard, Category 2 H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

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	H411	Toxic to aquatic life with long lasting effects.
Precautionary statements	: P102	Keep out of reach of children.
	<b>Prevention:</b>	
	P260	Do not breathe dust or mist.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
	<b>Response:</b>	
	P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
	P310	
	<b>Disposal:</b>	
	P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:  
sodium hydroxide

### Additional Labelling:

Safety data sheet available on request.

EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).

### 2.3 Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Formulated product

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
sodium carbonate	497-19-8 207-838-8 01-2119485498-19	Eye Irrit. 2; H319	>= 5 - < 10
disodium metasilicate	6834-92-0 229-912-9	Skin Corr. 1B; H314 STOT SE 3; H335 Met. Corr. 1; H290	>= 5 - < 10
Sodium metasilicate, pentahydrate	10213-79-3 229-912-9 01-2119449811-37	Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335	>= 5 - < 10

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troclosene sodium, dihydrate	51580-86-0 220-767-7	Acute Tox. 4; H302 Eye Irrit. 2; H319 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  SCL >= 10 % 3; H335	>= 5 - < 10
sodium hydroxide	1310-73-2 215-185-5 01-2119457892-27-XXXX	Met. Corr. 1; H290 Skin Corr. 1A; H314  SCL >= 5 % 1A; H314 2 - < 5 % 1B; H314 0,5 - < 2 % 2; H315 0,5 - < 2 % 2; H319	>= 3 - < 5
Alcohols, C12-15, ethoxylated propoxylated	68551-13-3	Aquatic Acute 1; H400	>= 2,5 - < 5

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.  
Consult a physician after significant exposure.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
Protect unharmed eye.  
Continue rinsing eyes during transport to hospital.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Take victim immediately to hospital.

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

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Symptoms : corrosive effects

Risks : No information available.

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

Treatment : For specialist advice physicians should contact the Poisons Information Service.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

Specific hazards during firefighting : Exposure to decomposition products may be a hazard to health.

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

Hazardous combustion products : Chlorine compounds

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Standard procedure for chemical fires. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
Ensure adequate ventilation.  
Evacuate personnel to safe areas.

### 6.2 Environmental precautions

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Environmental precautions : Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Neutralise with acid.  
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. May develop chlorine if mixed with acidic solutions.

Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : Store in original container. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container.

Other data : Keep in a dry place. No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Cleaning agent

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

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Contains no substances with occupational exposure limit values.

### DNEL

**sodium carbonate**  
**497-19-8:**

: End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term local effects  
Value: 10 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Acute local effects  
Value: 10 mg/m<sup>3</sup>

**Sodium metasilicate,**  
**pentahydrate**  
**10213-79-3:**

: End Use: Consumers  
Exposure routes: Oral  
Potential health effects: Long-term systemic effects  
Value: 0,74 mg/kg

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 6,22 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 1,55 mg/m<sup>3</sup>

End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 1,49 mg/kg

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 0,74 mg/kg

**sodium hydroxide**  
**1310-73-2:**

: End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects, Long-term local effects  
Value: 1,5 mg/m<sup>3</sup>

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Short-term exposure, Local effects, Systemic effects  
Value: 3 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term local effects, Long-term systemic effects  
Value: 0,6 mg/m<sup>3</sup>

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End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Short-term exposure, Local effects, Systemic effects  
Value: 1,2 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term local effects, Long-term systemic effects  
Value: 25 mg/m<sup>3</sup>

### PNEC

**Sodium metasilicate,  
pentahydrate  
10213-79-3:**

: Fresh water  
Value: 7,5 mg/l

Marine water  
Value: 1 mg/l

intermittent release  
Value: 7,5 mg/l

STP  
Value: 1000 mg/l

## 8.2 Exposure controls

### Personal protective equipment

Eye protection : Tightly fitting safety goggles

### Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Remove and wash contaminated clothing before re-use.

Respiratory protection : Not required; except in case of aerosol formation.  
Recommended Filter type:  
ABEK-P3-filter  
Ensure adequate ventilation, especially in confined areas.

Not required; except in case of aerosol formation.  
Recommended Filter type:  
ABEK-P3-filter

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### Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform  
respective authorities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : powder

Colour : white

Odour : slight chlorine

Odour Threshold : No data available

pH : ca. 12,3, Concentration: 10,00 g/l

Melting point/range : No data available

Boiling point/boiling range : No information available.

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Flammability (liquids) : No data available

Burning rate : No data available

Lower explosion limit : No data available

Upper explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : ca. 1,03 g/cm<sup>3</sup>

Bulk density : ca. 1,03 kg/m<sup>3</sup>

Water solubility : soluble

Solubility in other solvents : No data available

Partition coefficient: n-  
octanol/water : No data available

Ignition temperature : No data available

Thermal decomposition : No data available

Viscosity, dynamic : No data available



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Viscosity, kinematic : No data available  
Explosive properties : No data available  
Oxidizing properties : No data available

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions., No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions., No decomposition if used as directed.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : Strong acids  
No data available

### 10.6 Hazardous decomposition products

Hazardous decomposition products : May develop chlorine if mixed with acidic solutions.  
No hazardous decomposition products are known.  
Other information : May develop chlorine if mixed with acidic solutions.  
No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product

Acute oral toxicity : Acute toxicity estimate : > 2.000 mg/kg  
Method: Calculation method  
Skin corrosion/irritation : Extremely corrosive and destructive to tissue.  
Serious eye damage/eye irritation : May cause irreversible eye damage.  
Respiratory or skin sensitisation : No data available

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Germ cell mutagenicity	: Not Rated
Carcinogenicity	: Not Rated
Reproductive toxicity	: Not Rated
STOT - single exposure	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration toxicity	: Not Rated
Further information	: No data available

### Components: sodium carbonate

#### 497-19-8:

Acute oral toxicity	: LD50 Rat: 2.800 mg/kg  LD50 Oral Rat: 4.090 mg/kg
Acute inhalation toxicity	: LC50 Rat: 2,3 mg/l Exposure time: 2 h Method: OECD Test Guideline 403  LC50 Mouse: 1,2 mg/l Exposure time: 2 h
Acute dermal toxicity	: LD50 Dermal Rabbit: > 2.000 mg/kg
Skin corrosion/irritation	: Species: Rabbit Result: No skin irritation Method: OECD Test Guideline 404
Serious eye damage/eye irritation	: Species: Rabbit Result: Eye irritation
Respiratory or skin sensitisation	: Result: Not a skin sensitizer.

### Sodium metasilicate, pentahydrate

#### 10213-79-3:

Acute oral toxicity	: LD50 Rat: 1.152 - 1.349 mg/kg
Acute inhalation toxicity	: LC50 Rat: 2,06 mg/l

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Acute dermal toxicity : LD50 Rat: > 5.000 mg/kg

### **troclosene sodium, dihydrate** **51580-86-0:**

Acute oral toxicity : LD50 Rat: 1.400 mg/kg

Acute toxicity estimate : 500,0 mg/kg  
Method: Converted acute toxicity point estimate

### **sodium hydroxide** **1310-73-2:**

Acute oral toxicity : LD50 Oral Rat: 2.000 mg/kg

Skin corrosion/irritation : Result: Corrosive

Serious eye damage/eye irritation : Result: Corrosive

### **Alcohols, C12-15, ethoxylated propoxylated** **68551-13-3:**

Acute oral toxicity : LD50 Rat: > 5.000 mg/kg

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### **sodium carbonate** **497-19-8:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 300 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 200 - 227 mg/l  
Exposure time: 48 h

EC50 (Daphnia (water flea)): 264 mg/l  
Exposure time: 48 h

#### **Sodium metasilicate, pentahydrate** **10213-79-3:**

Toxicity to fish : LC50 (Brachydanio rerio): 210 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.700 mg/l  
Exposure time: 48 h

#### **troclosene sodium, dihydrate** **51580-86-0:**

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Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,46 mg/l  
Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)): 0,13 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,28 mg/l  
Exposure time: 48 h

### sodium hydroxide

#### 1310-73-2:

Toxicity to fish : LC50 (Fish): 33 - 189 mg/l  
Exposure time: 96 h

LC50 (Gambusia affinis (Mosquito fish)): 125 mg/l  
Exposure time: 96 h

LC50 (Poecilia reticulata (guppy)): 76 mg/l  
Exposure time: 24 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 40,4 mg/l

EC50 (Daphnia magna (Water flea)): 76 mg/l  
Exposure time: 24 h

Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 22 mg/l  
Exposure time: 15 min

### Alcohols, C12-15, ethoxylated propoxylated

#### 68551-13-3:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,61 - 0,75 mg/l  
Exposure time: 96 h  
Test Type: static test

LC50 (Cyprinodon variegatus (sheepshead minnow)): > 3,2 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,17 - 0,25 mg/l  
Exposure time: 48 h

## 12.2 Persistence and degradability

### Product:

Biodegradability : Remarks: The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

### Components:

#### sodium hydroxide

#### 1310-73-2:

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

### Alcohols, C12-15, ethoxylated propoxylated

#### 68551-13-3:

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Biodegradability	:	Remarks: This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.  Biodegradation: 60,5 % Method: EN ISO 14593: CO2-Headspace-Test  Biodegradation: 95,5 % Remarks: see user defined free text
Chemical Oxygen Demand (COD)	:	2.200 mg/g
BOD/COD	:	BOD/COD: 29 % Remarks: see user defined free text
Dissolved organic carbon (DOC)	:	620 mg/g Method: see user defined free text

### 12.3 Bioaccumulative potential

#### Components:

#### **sodium hydroxide**

#### **1310-73-2:**

Bioaccumulation	:	Species: Fish Remarks: No bioaccumulation is to be expected (log Pow <= 4).
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### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Other adverse effects

#### Product:

Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product	:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

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### SECTION 14: Transport information

#### 14.1 UN number

ADR : 3262  
IMDG : 3262  
IATA : 3262

#### 14.2 Proper shipping name

ADR : CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.  
(sodium hydroxide, disodium metasilicate)  
IMDG : CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.  
(sodium hydroxide, disodium metasilicate)  
IATA : Corrosive solid, basic, inorganic, n.o.s. Not permitted for transport

#### 14.3 Transport hazard class

ADR : 8  
IMDG : 8  
IATA : 8

#### 14.4 Packing group

ADR  
Classification Code : C6  
Packaging group : III  
Hazard Identification Number : 80  
Labels : 8  
Tunnel restriction code : (E)  
IMDG  
Packaging group : III  
Labels : 8  
EmS Number : F-A, S-B  
IATA  
(Cargo) : Corrosive solid, basic, inorganic, n.o.s. Not permitted for transport  
Packaging group : III  
Labels : 8

#### 14.5 Environmental hazards

ADR  
Environmentally hazardous : yes  
IMDG  
Marine pollutant : yes  
IATA  
Environmentally hazardous : no

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

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

Not applicable for product as supplied.

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### SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E2	ENVIRONMENTAL HAZARDS	200 000067	500 000067

TA Luft List (Germany) : Total dust: Not applicable  
: Inorganic substances in powdered form: Not applicable  
: Inorganic substances in vapour or gaseous form: Not applicable  
: Organic Substances: Not applicable  
: Carcinogenic substances: Not applicable  
: Mutagenic: Not applicable  
: Toxic to reproduction: Not applicable

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Update: Percent volatile: 65 %  
669,5 g/l  
VOC content excluding water

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Update: Percent volatile: 65 %  
669,5 g/l  
VOC content valid only for coating materials used on wood surfaces

according to Detergents Regulation EC 648/2004 :  $\geq 30\%$  phosphates, 5 -  $< 15\%$  chlorine-based bleaching agents,  $< 5\%$  Non-ionic surfactants

GISBAU (D) : no assignment possible

#### 15.2 Chemical safety assessment

There is no data available for this product.

### SECTION 16: Other information

#### Full text of H-Statements

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### Further information

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Classification procedure:	H314	Based on product data or assessment
	H318	Based on product data or assessment
	H411	Calculation method

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; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.