

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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## ACTIV BICOMPACT 10 KG BOX

WM 1112585

Order number: 0712585

Version 2.1

Revision Date 04.02.2021

Print Date 27.09.2021

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

#### 1.1 Product identifier

Trade name : ACTIV BICOMPACT 10 KG BOX  
Identification number : 40000283

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

Use of the Substance/Mixture : Detergent  
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  
Centru za kontrolu otrovanja u Zagrebu na tel. (01) 2348 342  
+49(0)6131-19240

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 H319: Causes serious eye irritation.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

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.  
P337 + P313 If eye irritation persists: Get medical advice/attention.

### Disposal:

P501

Dispose of contents/ container to an approved waste disposal plant.

Safety data sheet available on request.

### 2.3 Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### 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	>= 15 - < 20
disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4 239-707-6 01-2119457268-30	Acute Tox. 4; H302 Ox. Sol. 3; H272 Eye Dam. 1; H318  SCL > 7,5 - < 25 % 2; H319 >= 25 % 1; H318	>= 15 - < 20
Alcohols, C12-14, ethoxylated (7 EO)	68439-50-9 932-106-6	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412  SCL > 10 % 1; H318 > 1 - 10 % 2; H319	>= 5 - < 10
sodium hydrogencarbonate	144-55-8 205-633-8	Eye Irrit. 2; H319	>= 2 - < 5
Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	68955-19-1 273-257-1 01-2119490225-39	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412  SCL >= 20 % 1; H318 10 - 20 % 2; H319	>= 3 - < 5

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Alcohols, C12-14. ethoxylated	68439-50-9	Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	$\geq 1 - < 2$
sodium palmitate	408-35-5 206-988-1	Eye Irrit. 2; H319	$\geq 1 - < 2$
Subtilisin	9014-01-1 232-752-2 01-2119480434-38	STOT SE 3; H335 Skin Irrit. 2; H315 Eye Dam. 1; H318 Resp. Sens. 1; H334 Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	$\geq 0,25 - < 1$
Lipase, triacylglycerol	9001-62-1 232-619-9	Resp. Sens. 1; H334	$\geq 0 - < 1$
Amylase, $\alpha$ -	9000-90-2 232-565-6	Resp. Sens. 1; H334	$\geq 0 - < 1$
Mannanase, endo-1,4- -	37288-54-3 253-446-5	Resp. Sens. 1; H334	$\geq 0 - < 1$
Cellulase	9012-54-8 232-734-4	Resp. Sens. 1; H334	$\geq 0 - < 1$

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.  
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Protect unharmed eye.  
If easy to do, remove contact lens, if worn.  
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If eye irritation persists, consult a specialist.

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If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.

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

Symptoms : Irritation

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.

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

Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

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

Further information : 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.

## 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.

### 6.2 Environmental precautions

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Environmental precautions : Try to prevent the material from entering drains or water courses.

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

Methods for cleaning up : 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 : Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

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) : Detergent

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

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/m3

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**disodium carbonate,  
compound with hydrogen  
peroxide (2:3)  
15630-89-4:**

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

: End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Acute local effects  
Value: 12,8 mg/cm<sup>2</sup>

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

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Acute local effects  
Value: 6,4 mg/cm<sup>2</sup>

**Sulfuric acid, mono-C12-18-  
alkyl esters, sodium salts  
68955-19-1:**

: End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 4060 mg/kg bw/day

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 285 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 2440 mg/kg bw/day

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 85 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term systemic effects  
Value: 24 mg/kg bw/day

**Subtilisin  
9014-01-1:**

: End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term local effects  
Value: 0,06 µg/m<sup>3</sup>

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 0,06 µg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term local effects

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Value: 0,015 µg/m<sup>3</sup>

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 0,015 µg/m<sup>3</sup>

End Use: Consumers

Exposure routes: Ingestion

Potential health effects: Long-term systemic effects

Value: 1,8 mg/kg

End Use: Consumers

Exposure routes: Ingestion

Potential health effects: Acute systemic effects

Value: 3,6 mg/kg

**Amylase, α-  
9000-90-2:**

: End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 0,06 µg/m<sup>3</sup>

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 0,015 µg/m<sup>3</sup>

**Mannanase, endo-1,4- -  
37288-54-3:**

: End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 0,06 µg/m<sup>3</sup>

**PNEC**

**disodium carbonate,  
compound with hydrogen  
peroxide (2:3)  
15630-89-4:**

: Fresh water

Value: 0,035 mg/l

Marine water

Value: 0,035 mg/l

**Sulfuric acid, mono-C12-18-  
alkyl esters, sodium salts  
68955-19-1:**

: Fresh water

Value: 0,098 mg/l

Marine water

Value: 0,0098 mg/l

Fresh water sediment

Value: 3,45 mg/kg

Marine sediment

Value: 0,345 mg/kg

Soil

Value: 0,631 mg/kg

intermittent release

Value: 0,15 mg/l

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	STP Value: 6,8 mg/l
<b>Subtilisin 9014-01-1:</b>	: intermittent release Value: 0,0009 mg/l
	STP Value: 65 mg/l
	Soil Value: 0,568 mg/kg
	Fresh water Value: 1,7 µg/l
	Marine water Value: 0,170 µg/l
<b>Amylase, α- 9000-90-2:</b>	: Fresh water Value: 5,2 µg/l
	Marine water Value: 0,52 µg/l
	STP Value: 65000 µg/l
<b>Cellulase 9012-54-8:</b>	: Fresh water Value: 0,024 mg/l
	intermittent release Value: 0,237 mg/l
	STP Value: 65 mg/l
	Soil Value: 0,004 mg/kg

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : If splashes are likely to occur, wear:  
Tightly fitting safety goggles

#### Hand protection

Material : For prolonged or repeated contact use protective gloves.  
It is suggested the usage of chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374-1: 2003 (0,4 mm).  
As alternative, a different type of gloves might be used if, accordingly to the recommendations of the producer, guarantee the same level of protection.



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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 : not required under normal use

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

### Environmental exposure controls

General advice : Try to prevent the material from entering drains or water courses.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	: powder
Colour	: white
Odour	: odourized
Odour Threshold	: No data available
pH	: 10,4, Concentration: 5,00 g/l
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: No data available
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	: 800 g/l
Water solubility	: > 10 g/l at 20 °C
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available

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Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
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.
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### 10.4 Conditions to avoid

Conditions to avoid	: No data available
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### 10.5 Incompatible materials

Materials to avoid	: No data available
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### 10.6 Hazardous decomposition products

Hazardous decomposition products	: No hazardous decomposition products are known.
Other information	: No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Our company is strongly against animal testing.  
Our company does not place any orders for animal testing for the finished product or the ingredients.  
However, as a result of EU legislation (REACH Regulation), the manufacturers of ingredients or EU importers are obliged to test ingredients with regard to their effects on human health and the environment before they are brought onto the market. Some of the tests made necessary by this took place decades ago.

#### Product

Skin corrosion/irritation	: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.
Serious eye damage/eye irritation	: Product dust may be irritating to eyes, skin and respiratory system. Causes serious eye irritation.

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Respiratory or skin sensitisation	: No data available
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.

**disodium carbonate, compound with hydrogen peroxide (2:3)**  
**15630-89-4:**

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Acute oral toxicity : LD50 Oral Rat: 1.034 mg/kg

Acute dermal toxicity : LD50 Dermal Rabbit: > 2.000 mg/kg  
Method: see user defined free text

### Alcohols, C12-14, ethoxylated (7 EO)

#### 68439-50-9:

Acute oral toxicity : LD50 Oral Rat: 300 - 2.000 mg/kg

Acute dermal toxicity : LD50 Dermal Rabbit: > 2.000 mg/kg

Germ cell mutagenicity

Genotoxicity in vitro : Type: Ames test  
Result: negative

Reproductive toxicity : Species: Rat  
NOAEL: > 250 mg/kg,  
F1: > 250 mg/kg,  
F2: > 250 mg/kg

Teratogenicity : Species: Rat  
Application Route: Oral  
>50 mg/kg  
> 50 mg/kg  
  
Species: Rat  
Application Route: Dermal  
>250 mg/kg  
> 250 mg/kg

### sodium hydrogencarbonate

#### 144-55-8:

Acute oral toxicity : LD50 Rat: 4.220 mg/kg

Acute inhalation toxicity : LC50 Rat: 4,74 mg/l

### Sulfuric acid, mono-C12-18-alkyl esters, sodium salts

#### 68955-19-1:

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

Acute dermal toxicity : LD50 Dermal Rabbit: > 2.000 mg/kg

Skin corrosion/irritation : Result: irritating  
Method: OECD Test Guideline 404

Serious eye damage/eye irritation : Result: Irreversible effects on the eye  
Method: OECD Test Guideline 405

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Respiratory or skin sensitisation : Species: Guinea pig  
Result: Not a skin sensitizer.  
Method: OECD Test Guideline 406

### Alcohols, C12-14. ethoxylated 68439-50-9:

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

### Subtilisin

#### 9014-01-1:

Acute oral toxicity : LD50 Rat: 1.800 mg/kg  
Method: OECD Test Guideline 401

LD50 Rat: 1.800 g/kg

Acute inhalation toxicity : LC50 Rat: 0,8 mg/l  
Exposure time: 4 h

Acute dermal toxicity : LD50 Dermal Rabbit: > 2 mg/kg

LD50 Dermal Rabbit: > 2 mg/kg

Skin corrosion/irritation : Result: Skin irritation  
Method: OECD Test Guideline 404

Serious eye damage/eye irritation : Result: Mild eye irritation  
Method: OECD Test Guideline 405

Respiratory or skin sensitisation : Result: Does not cause skin sensitisation.  
  
Result: May cause sensitisation by inhalation.

### Germ cell mutagenicity

Genotoxicity in vitro : Type: Ames test  
Test species: Salmonella typhimurium  
with and without metabolic activation  
Result: negative  
  
: Type: Chromosome aberration test in vitro  
Result: negative  
  
: Result: negative  
Method: OECD Test Guideline 471  
  
: Result: negative  
Method: OECD Test Guideline 473

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: Result: negative  
Method: OECD Test Guideline 476

### **Amylase, $\alpha$ - 9000-90-2:**

Acute oral toxicity : LD50 Oral : > 2.000 mg/kg  
Method: OECD Test Guideline 401

Skin corrosion/irritation : Result: No skin irritation  
Method: OECD Test Guideline 404

Serious eye damage/eye irritation : Result: No eye irritation  
Method: OECD Test Guideline 405

Respiratory or skin sensitisation : Result: Causes sensitisation.

### **Mannanase, endo-1,4- - 37288-54-3:**

Acute oral toxicity : LD50 Oral : > 2.000 mg/kg  
Method: OECD Test Guideline 401

LD50 Oral Rat: > 5.000 mg/kg

Acute inhalation toxicity : LC50 Rat: 4,95 mg/l  
Exposure time: 4 h

Skin corrosion/irritation : Result: No skin irritation  
Method: OECD Test Guideline 404

Serious eye damage/eye irritation : Result: No eye irritation  
Method: OECD Test Guideline 405

Respiratory or skin sensitisation : Result: Causes sensitisation.

### **Cellulase 9012-54-8:**

Acute oral toxicity : LD50 Oral : > 2.000 mg/kg  
Method: OECD Test Guideline 401

Skin corrosion/irritation : Method: OECD Test Guideline 404

Serious eye damage/eye irritation : Method: OECD Test Guideline 405

Respiratory or skin sensitisation : Classification: May cause sensitisation by inhalation.

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Result: May cause sensitisation by inhalation.  
largely based on human evidence

## 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 : EC50 (Daphnia magna (Water flea)): 200 - 227 mg/l  
aquatic invertebrates Exposure time: 48 h

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

##### **disodium carbonate, compound with hydrogen peroxide (2:3)**

##### **15630-89-4:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 70,7 mg/l  
Exposure time: 96 h

NOEC (Pimephales promelas (fathead minnow)): 7,4 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia pulex (Water flea)): 4,9 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to daphnia and other : NOEC: 2 mg/l  
aquatic invertebrates (Chronic toxicity) Species: Daphnia pulex (Water flea)

##### **Alcohols, C12-14, ethoxylated (7 EO)**

##### **68439-50-9:**

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 1 - 10 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203

LC50 (Fish): > 1 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
aquatic invertebrates Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 1 - 10 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

EC10 (Desmodesmus subspicatus (green algae)): 0,1 - 1 mg/l

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Exposure time: 72 h

Test Type: static test

M-Factor (Short-term (acute)  
aquatic hazard)

: 1

Toxicity to bacteria

: EC50 (Bacteria): 140 mg/l

Toxicity to soil dwelling  
organisms

: 220 mg/kg  
Species: Eisenia fetida (earthworms)

Plant toxicity

: 10 mg/l  
Species: Lepidium sativum (cress)  
Method: see user defined free text

### sodium hydrogencarbonate 144-55-8:

Toxicity to fish

: LC50 (Lepomis macrochirus (Bluegill sunfish)): 8.250 mg/l  
Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): 7.100 mg/l  
Exposure time: 96 h

NOEC (Oncorhynchus mykiss (rainbow trout)): 2.300 mg/l  
Exposure time: 96 h

NOEC (Lepomis macrochirus (Bluegill sunfish)): 5.200 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other  
aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 2.350 mg/l  
Exposure time: 48 h

EC50 (Daphnia magna (Water flea)): 4.100 mg/l  
Exposure time: 48 h

NOEC (Daphnia magna (Water flea)): > 576 mg/l  
Exposure time: 21 d

### Sulfuric acid, mono-C12-18-alkyl esters, sodium salts 68955-19-1:

Toxicity to fish

: LC50 (Cyprinus carpio (Carp)): > 10 - 100 mg/l  
Method: ISO 7346/2

Toxicity to daphnia and other  
aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l  
Method: EG 84/449

Toxicity to algae

: EC50 (Scenedesmus subspicatus): > 10 - 100 mg/l  
Method: see user defined free text

Toxicity to bacteria

: EC0 (Pseudomonas putida): > 100 mg/l  
Method: DIN 38412

Toxicity to fish (Chronic toxicity)

: NOEC: > 1 - 10 mg/l  
Species: Pimephales promelas (fathead minnow)  
Remarks: Based on data from similar materials

### Alcohols, C12-14. ethoxylated



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### 68439-50-9:

Toxicity to fish : LC50 (Fish): > 0,1 - 1 mg/l  
Exposure time: 96 h

NOEC (Fish): > 0,1 - 1 mg/l  
Exposure time: 30 d

M-Factor (Short-term (acute)  
aquatic hazard) : 1

### Subtilisin

#### 9014-01-1:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 8,2 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other  
aquatic invertebrates : (Daphnia (water flea)): 0,586 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

EC0 (Daphnia (water flea)): 0,17 mg/l  
Exposure time: 48 h

Toxicity to algae : NOEC (Selenastrum capricornutum): 0,63 mg/l  
Exposure time: 48 h

ErC50 (Selenastrum capricornutum (green algae)): 0,83 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (microalgae)): 0,041 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : EC10: 0,017 mg/l  
Exposure time: 32 d  
Species: Pimephales promelas (fathead minnow)

### Amylase, α-

#### 9000-90-2:

Toxicity to fish : LC50 (Fish): 58,3 - 326,7 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other  
aquatic invertebrates : EC50 (Daphnia (water flea)): 31,7 - 457 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : ErC50 (algae): > 5,2 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

### Mannanase, endo-1,4- -

#### 37288-54-3:

Toxicity to fish : LC50 (Fish): > 55,5 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

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	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia (water flea)): > 55,5 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
	EC0 (Daphnia (water flea)): > 100 mg/l Exposure time: 48 h
Toxicity to algae	: NOEC : 13,9 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	ErC50 (algae): 0,83 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h
<b>Cellulase</b> <b>9012-54-8:</b>	
Toxicity to fish	: LC50 (Fish): > 39,5 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia (water flea)): > 39,5 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	: ErC50 : > 5,2 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

### 12.2 Persistence and degradability

#### Components:

**Alcohols, C12-14, ethoxylated (7 EO)**  
**68439-50-9:**

Biodegradability	: Result: Readily biodegradable. Biodegradation: > 70 % Exposure time: 28 d Method: OECD 301 A
	Result: rapidly biodegradable Biodegradation: > 60 % Exposure time: 28 d Method: OECD 301 B

**Sulfuric acid, mono-C12-18-alkyl esters, sodium salts**  
**68955-19-1:**

Biodegradability	: Result: rapidly biodegradable
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**Subtilisin**  
**9014-01-1:**

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Biodegradability : Biodegradation: 55 - 79 %  
Exposure time: 28 d  
  
Result: Readily biodegradable.  
Biodegradation: 100 %  
Exposure time: 29 d

### **Amylase, α- 9000-90-2:**

Biodegradability : Result: rapidly biodegradable

### **Mannanase, endo-1,4- - 37288-54-3:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301

### **Cellulase 9012-54-8:**

Biodegradability : Result: rapidly biodegradable  
Method: OECD 301 F

Result: rapidly biodegradable  
Method: OECD 301 B

## 12.3 Bioaccumulative potential

### Components:

#### **Sulfuric acid, mono-C12-18-alkyl esters, sodium salts**

##### **68955-19-1:**

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

##### **Subtilisin**

##### **9014-01-1:**

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: < 0

##### **Amylase, α- 9000-90-2:**

Partition coefficient: n-octanol/water : log Pow: < 0

##### **Mannanase, endo-1,4- - 37288-54-3:**

Partition coefficient: n-octanol/water : log Pow: < 0

##### **Cellulase**

##### **9012-54-8:**

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow ≤ 4).

Partition coefficient: n-octanol/water : log Pow: < 0

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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 : There is no data available for this product.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product	: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. In accordance with local and national regulations.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

## SECTION 14: Transport information

### 14.1 UN number

#### ADR

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

### 14.2 Proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class

#### ADR

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

### 14.4 Packing group

#### ADR

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

### 14.5 Environmental hazards

#### ADR

Not dangerous goods

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### IMDG

Not regulated as a dangerous good

### IATA

Not dangerous goods

### 14.6 Special precautions for user

Not applicable

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.

## 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. : Not applicable

TA Luft List (Germany) : Total dust: Not applicable  
: Inorganic substances in powdered form: Not applicable  
: Inorganic substances in vapour or gaseous form: : portionClass 3:  
0,14 %  
: 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: Not applicable

according to Detergents Regulation EC 648/2004 : 15 - <30% oxygen-based bleaching agents, zeolites, 5 - <15% Non-ionic surfactants, <5% Anionic surfactants, soap, enzymes, optical brighteners, Perfumes, PROTEASE, LIPASE, AMYLASE, MANNANASE, CELLULASE

GISBAU (D) : no assignment possible

### 15.2 Chemical safety assessment

## SECTION 16: Other information

Full text of H-Statements

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H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful 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: H319 On basis of test data.

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.

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