



## ACTIV BICOMPACT

WM 0716250

Order number: 0716250

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

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

#### 1.1 Product identifier

Trade name : ACTIV BICOMPACT  
UFI : GXG4-A0RK-300K-9U7Y

#### 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:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for



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P337 + P313

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

### Additional Labelling:

Safety data sheet available on request.

### 2.3 Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
sodium carbonate	497-19-8 207-838-8 011-005-00-2 01-2119485498-19	Eye Irrit. 2; H319	>= 10 - < 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  specific concentration limit Eye Irrit. 2; H319 > 7,5 - < 25 % Eye Dam. 1; H318 >= 25 %	>= 10 - < 20
Alcohols, C12-14, ethoxylated (7 EO)	68439-50-9 500-213-3	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412  M-Factor (Acute aquatic toxicity): 1  specific concentration limit Eye Dam. 1; H318 > 10 % Eye Irrit. 2; H319 > 1 - 10 %	>= 3 - < 10
sodium hydrogencarbonate	144-55-8 205-633-8		>= 1 - < 10
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	>= 3 - < 10



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		specific concentration limit Eye Dam. 1; H318 >= 20 % Eye Irrit. 2; H319 10 - 20 %	
Alcohols, C12-14. ethoxylated	68439-50-9 500-213-3	Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 3; H412  M-Factor (Acute aquatic toxicity): 1	>= 1 - < 2,5
sodium palmitate	408-35-5 206-988-1	Eye Irrit. 2; H319	>= 1 - < 10
Subtilisin	9014-01-1 232-752-2 647-012-00-8 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	>= 0,25 - < 1
Lipase, triacylglycerol	9001-62-1 232-619-9	Resp. Sens. 1; H334	>= 0,1 - < 1
Amylase	9000-90-2 232-565-6 647-015-00-4 01-2119938627-26	Resp. Sens. 1; H334	>= 0,1 - < 1
Mannanase, endo-1,4- -	37288-54-3 253-446-5	Resp. Sens. 1; H334	>= 0,1 - < 1
Cellulase	9012-54-8 232-734-4 647-002-00-3	Resp. Sens. 1; H334	>= 0,1 - < 1

### 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.



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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.

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.

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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 : 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.

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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.

### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.



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### 6.3 Methods and material 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.

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## 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.  
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.

Further information on storage stability : Keep in a dry place.  
No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Detergent

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 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.



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It is suggested the usage of chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. As alternative, a different type of gloves might be used if, accordingly to the recommendations of the producer, guarantee the same level of protection.

- 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

### 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, 0,5 %  
at 20 °C
- 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- : No data available



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octanol/water

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.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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.

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method



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### Components:

#### **sodium carbonate**

##### **SODIUM CARBONATE:**

- 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

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

##### **SODIUM CARBONATE PEROXIDE:**

- 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

#### **sodium hydrogencarbonate**

##### **SODIUM BICARBONATE:**

- 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

#### **Alcohols, C12-14. ethoxylated**

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

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

#### **Subtilisin**

##### **PROTEASE:**

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





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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

### Amylase

#### AMYLASE:

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

### 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

### Cellulase

#### CELLULASE:

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

### Skin corrosion/irritation

#### Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

### Components:

#### sodium carbonate

#### SODIUM CARBONATE:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

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

#### 68955-19-1:

Method : OECD Test Guideline 404  
Result : irritating

### Subtilisin

#### PROTEASE:

Method : OECD Test Guideline 404



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Result : Skin irritation

### Amylase

#### AMYLASE:

Method : OECD Test Guideline 404  
Result : No skin irritation

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

#### 37288-54-3:

Method : OECD Test Guideline 404  
Result : No skin irritation

### Cellulase

#### CELLULASE:

Assessment : No skin irritation  
Method : OECD Test Guideline 404

### Serious eye damage/eye irritation

#### Product:

Remarks : Product dust may be irritating to eyes, skin and respiratory system.  
Causes serious eye irritation.

#### Components:

##### sodium carbonate

#### SODIUM CARBONATE:

Species : Rabbit  
Result : Eye irritation

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

#### 68955-19-1:

Method : OECD Test Guideline 405  
Result : Irreversible effects on the eye

### Subtilisin

#### PROTEASE:

Method : OECD Test Guideline 405  
Result : Mild eye irritation

### Amylase

#### AMYLASE:

Method : OECD Test Guideline 405  
Result : No eye irritation

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

#### 37288-54-3:

Method : OECD Test Guideline 405



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Result : No eye irritation

### Cellulase

#### CELLULASE:

Assessment : No eye irritation  
Method : OECD Test Guideline 405

### Respiratory or skin sensitisation

#### Product:

Remarks : No data available

#### Components:

##### sodium carbonate

#### SODIUM CARBONATE:

Result : Not a skin sensitizer.

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

#### 68955-19-1:

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

### Subtilisin

#### PROTEASE:

Exposure routes : Dermal  
Result : Does not cause skin sensitisation.

Exposure routes : Inhalation  
Result : May cause sensitisation by inhalation.

### Amylase

#### AMYLASE:

Result : Causes sensitisation.

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

#### 37288-54-3:

Result : Causes sensitisation.

### Cellulase

#### CELLULASE:

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

### Germ cell mutagenicity

Germ cell mutagenicity : Not Rated



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### Components:

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

##### 68439-50-9:

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

#### Subtilisin

##### PROTEASE:

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: Chromosome aberration test in vitro  
Result: negative

Method: OECD Test Guideline 471  
Result: negative

Method: OECD Test Guideline 473  
Result: negative

Method: OECD Test Guideline 476  
Result: negative

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

### 11.2 Information on other hazards

#### Further information

##### Product:

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### SODIUM CARBONATE:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 300 mg/l



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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 CARBONATE PEROXIDE:

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

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

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

Toxicity to algae/aquatic plants : 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  
Exposure time: 72 h  
Test Type: static test

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (Bacteria): 140 mg/l

Toxicity to soil dwelling organisms : 220 mg/kg  
Species: Eisenia fetida (earthworms)



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

### SODIUM BICARBONATE:

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

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

Toxicity to microorganisms : 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

### 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 (Acute aquatic) : 1



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toxicity)

### PROTEASE:

- 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/aquatic plants : 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:

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

### 37288-54-3:

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



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Method: OECD Test Guideline 202

EC0 (Daphnia (water flea)): > 100 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : 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

### CELLULASE:

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/aquatic plants : ErC50 : > 5,2 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

## 12.2 Persistence and degradability

### Components:

#### 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

#### 68955-19-1:

Biodegradability : Result: rapidly biodegradable

### PROTEASE:

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





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Biodegradation: 100 %  
Exposure time: 29 d

### AMYLASE:

Biodegradability : Result: rapidly biodegradable

### 37288-54-3:

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

### CELLULASE:

Biodegradability : Result: rapidly biodegradable  
Method: OECD 301 F

Result: rapidly biodegradable  
Method: OECD 301 B

## 12.3 Bioaccumulative potential

### Components:

#### 68955-19-1:

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

### PROTEASE:

Bioaccumulation : Remarks: Does not bioaccumulate.

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

### AMYLASE:

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

### 37288-54-3:

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

### CELLULASE:

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

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

## 12.4 Mobility in soil

No data available



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### 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

#### Product:

Additional ecological information : There is no data available for this product.

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## 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.

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## SECTION 14: Transport information

### 14.1 UN number

**ADR**  
Not dangerous goods  
**RID**  
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  
**RID**  
Not dangerous goods  
**IMDG**  
Not dangerous goods  
**IATA**  
Not dangerous goods

### 14.4 Packing group

**ADR**  
Not dangerous goods  
**RID**  
Not dangerous goods



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### IMDG

Not dangerous goods

### IATA

Not dangerous goods

### 14.5 Environmental hazards

#### ADR

Not dangerous goods

#### RID

Not dangerous goods

#### IMDG

Not regulated as a dangerous good

#### IATA

Not dangerous goods

### 14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport 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.

## 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



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### 15.2 Chemical safety assessment

#### SECTION 16: Other information

##### Full text of H-Statements

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.

##### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Ox. Sol.	:	Oxidizing solids
Resp. Sens.	:	Respiratory sensitisation
Skin Irrit.	:	Skin irritation
STOT SE	:	Specific target organ toxicity - single exposure

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; AIIC - Australian Inventory of Industrial Chemicals; 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; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

##### Further information



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**Classification of the mixture:**

Eye Irrit. 2

H319

**Classification procedure:**

On basis of test data.

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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