



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

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 : 4UG4-U025-T003-MGNW

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



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

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



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

		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.



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

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.

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

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



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

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.

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

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.



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

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



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

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



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

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



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

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



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

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



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

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



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

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



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

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)



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

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



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

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



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

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.



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

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



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

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.

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
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



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

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



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

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



ACTIV BICOMPACT

WM 0716249

Order number: 0716249

Version 1.5

Revision Date 24.01.2023

Print Date 05.02.2023

Classification of the mixture:

Eye Irrit. 2

H319

Classification procedure:

On basis of test data.

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