

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Bio-Circle STAR 200
Revision date : 02.03.2021
Print date : 10.09.2021

Version (Revision) : 4.0.1 (4.0.0)

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

1.1 Product identifier

Bio-Circle STAR 200

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

Relevant identified uses

PC 35 - Washing and cleaning products

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Bio-Circle Surface Technology GmbH

Street : Berensweg 200

Postal code/city : 33334 Gütersloh

Telephone : +49 5241 9443 0

Telefax : +49 5241 9443 44

Information contact : labor@bio-circle.de

1.4 Emergency telephone number

+49 5241 9443 51 during normal office hours
(Monday to Thursday from 8 am to 4 pm and Friday from 8 am to 3 pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Skin Corr. 1A ; H314 - Skin corrosion/irritation : Category 1A ; Causes severe skin burns and eye damage.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

2.2 Label elements

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

Hazard pictograms



Corrosion (GHS05)

Signal word

Danger

Hazard components for labelling

POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3

DISODIUM METASILICATE ; CAS No. : 6834-92-0

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P310 Immediately call a POISON CENTER/doctor/....

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Bio-Circle STAR 200
Revision date : 02.03.2021
Print date : 10.09.2021

Version (Revision) : 4.0.1 (4.0.0)

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

ALCOHOLS, C10-C12, ETHOXYLATED, PROPOXYLATED ; REACH No. : (Polymer) ; CAS No. : 68154-97-2

Weight fraction : $\geq 5 - < 10$ %

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

POTASSIUM CUMENESULFONATE ; REACH No. : 01-2119489427-24-XXXX ; EC No. : 629-764-9 ; CAS No. : 164524-02-1

Weight fraction : $\geq 1 - < 5$ %

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

SODIUM CUMENESULPHONATE ; REACH No. : 01-2119489411-37-XXXX ; EC No. : 239-854-6 ; CAS No. : 15763-76-5

Weight fraction : $\geq 1 - < 5$ %

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

POTASSIUM HYDROXIDE ; REACH No. : 01-2119487136-33-XXXX ; EC No. : 215-181-3 ; CAS No. : 1310-58-3

Weight fraction : $\geq 2 - < 5$ %

Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1A ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

Specific Conc. Limits : Skin Corr. 1A ; H314: $C \geq 5$ % • Eye Dam. 1 ; H318: $C \geq 2$ % • Skin Corr. 1B ; H314: $C \geq 2$ % • Skin Corr. 1C ; H314: $C \geq 2$ % • Eye Irrit. 2 ; H319: $C \geq 0,5$ % • Skin Irrit. 2 ; H315: $C \geq 0,5$ %

DISODIUM METASILICATE ; REACH No. : 01-2119449811-37-XXXX ; EC No. : 229-912-9 ; CAS No. : 6834-92-0

Weight fraction : $\geq 1 - < 3$ %

Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 STOT SE 3 ; H335

ALANINE N,N-BIS(CARBOXYMETHYL), -TRINATRIUMSALT IN WATER ; REACH No. : 01-0000016977-53-XXXX ; CAS No. : 164462-16-2

Weight fraction : $\geq 1 - < 5$ %

Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

When in doubt or if symptoms are observed, get medical advice.

General information

Do not put any product-impregnated cleaning rags into your trouser pockets. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation

Remove casualty to fresh air and keep warm and at rest.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

After eye contact

Protect uninjured eye. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Let 1 glass of water be drunken in little sips (dilution effect). Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Bio-Circle STAR 200
Revision date : 02.03.2021
Print date : 10.09.2021

Version (Revision) : 4.0.1 (4.0.0)

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water Foam Extinguishing powder Carbon dioxide (CO₂) Sand Nitrogen Extinguishing blanket

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated: Carbon monoxide , Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

5.4 Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Fire fighting water forms corrosive alkaline solutions - slip hazard!

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Special danger of slipping by leaking/spilling product.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Wash with plenty of water. Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

It is recommended to design all work processes always so that the following is excluded:

generation/formation of aerosols

Generation/formation of mist

Do not breathe gas/fumes/vapour/spray. Wear personal protection equipment (refer to section 8). Keep container tightly closed.

7.2 Conditions for safe storage, including any incompatibilities

Keep/Store only in original container. Protect against : Frost .

Technical measures and storage conditions

P405 - Store locked up.

Hints on joint storage

Storage class (TRGS 510) : 8B

7.3 Specific end use(s)

Trade name : Bio-Circle STAR 200
Revision date : 02.03.2021
Print date : 10.09.2021

Version (Revision) : 4.0.1 (4.0.0)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL-/PNEC-values

DNEL/DMEL

POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1

Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 53,6 mg/m³

SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5

Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 53,6 mg/m³

Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 7,6 mg/kg

POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1

Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 7,6 mg/kg

PNEC

DISODIUM METASILICATE ; CAS No. : 6834-92-0

Limit value type : PNEC (Aquatic, freshwater)
Limit value : 7,5 mg/l
Limit value type : PNEC (Aquatic, marine water)
Limit value : 1 mg/l
Limit value type : PNEC (Sewage treatment plant)
Limit value : 1000 mg/l

ALANINE N,N-BIS(CARBOXYMETHYL), -TRINATRIUMSALT IN WATER ; CAS No. : 164462-16-2

Limit value type : PNEC (Aquatic, freshwater)
Exposure route : Water (Including sewage plant)
Limit value : 2 mg/l
Limit value type : PNEC (Aquatic, marine water)
Exposure route : Water (Including sewage plant)
Limit value : 0,2 mg/l
Limit value type : PNEC (Sediment, freshwater)
Limit value : 24 mg/kg
Limit value type : PNEC Soil, Freshwater
Exposure route : Soil
Limit value : 2,5 mg/kg
Limit value type : PNEC (Sewage treatment plant)
Exposure route : Water (Including sewage plant)
Limit value : 100 mg/l

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Bio-Circle STAR 200
Revision date : 02.03.2021
Print date : 10.09.2021

Version (Revision) : 4.0.1 (4.0.0)



Wear suitable safety goggles in case of splash.

Suitable eye protection
EN 166.

Skin protection

Hand protection



Suitable gloves type : EN 374.

Suitable material : NBR (Nitrile rubber)

Breakthrough time (maximum wearing time) : 480 min.

Thickness of the glove material : 0.4 mm

Remark : The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Respiratory protection



Respiratory protection necessary at: aerosol or mist formation.

Usually no personal respiratory protection necessary.

Suitable respiratory protection apparatus

Combination filtering device (EN 14387)

Filter type: P2

Remark

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

General information

Do not put any product-impregnated cleaning rags into your trouser pockets. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. P362+P364 - Take off contaminated clothing and wash it before reuse. P264 - Wash hands thoroughly after handling.

8.3 Additional information

No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid

Colour : red

Odour

odourless

Safety characteristics

Solidifying point : (1013 hPa) approx. 0 °C

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Bio-Circle STAR 200
Revision date : 02.03.2021
Print date : 10.09.2021

Version (Revision) : 4.0.1 (4.0.0)

Initial boiling point and boiling range (1013 hPa)	approx.	98 °C
Flash point :		not applicable
Auto-ignition temperature :		not applicable
Lower explosion limit :		No data available
Upper explosion limit :		No data available
Density : (20 °C)	approx.	1,07 g/cm ³
pH :	approx.	13,5
Maximum VOC content (EC) :		0 Wt %
Maximum VOC content (Switzerland) :		0 Wt %

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Exothermic reaction with: Acid

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

May cause strong formation of hydrogen by contact with amphoteric metals (e.g. alumina, lead, zinc) - danger of explosion.

10.4 Conditions to avoid

Do not wash off with acidic cleaning agents.

10.5 Incompatible materials

Metal, base - Aluminium - Zinc

10.6 Hazardous decomposition products

Hydrogen
Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

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

Acute toxicity

Acute oral toxicity

Parameter :	ATEmix calculated
Exposure route :	Oral
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (DISODIUM METASILICATE ; CAS No. : 6834-92-0)
Exposure route :	Oral
Species :	Mouse
Effective dose :	770 - 820 mg/kg
Parameter :	LD50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 7000 mg/kg
Method :	OECD 401
Parameter :	LD50 (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 7000 mg/kg
Method :	OECD 401

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Bio-Circle STAR 200
Revision date : 02.03.2021
Print date : 10.09.2021

Version (Revision) : 4.0.1 (4.0.0)

Parameter : LD50 (DISODIUM METASILICATE ; CAS No. : 6834-92-0)
Exposure route : Oral
Species : Rat
Effective dose : 1152 - 1349 mg/kg
Parameter : LD50 (POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3)
Exposure route : Oral
Species : Rat
Effective dose : 365 mg/kg
Method : OECD 425

Acute dermal toxicity

Parameter : ATEmix calculated
Exposure route : Dermal
Effective dose : > 2000 mg/kg
Parameter : LD50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg
Method : OECD 402
Parameter : LD50 (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)
Exposure route : Dermal
Species : Rat
Effective dose : > 2000 mg/kg
Method : OECD 402
Parameter : LD50 (DISODIUM METASILICATE ; CAS No. : 6834-92-0)
Exposure route : Dermal
Species : Rat
Effective dose : > 5000 mg/kg

Acute inhalation toxicity

Parameter : ATEmix calculated
Exposure route : Inhalation
Effective dose : > 20 mg/l
Parameter : LC50 (DISODIUM METASILICATE ; CAS No. : 6834-92-0)
Exposure route : Inhalation
Species : Rat
Effective dose : > 2,06 mg/l
Exposure time : 4 h
Parameter : LC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Exposure route : Inhalation
Species : Rat
Effective dose : > 6,41 mg/l
Exposure time : 232 min
Method : OECD 403
Parameter : LC50 (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)
Exposure route : Inhalation
Species : Rat
Effective dose : > 6,41 mg/l
Exposure time : 232 min
Method : OECD 403

Corrosion

Skin corrosion/irritation

Causes severe burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Skin sensitisation

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Bio-Circle STAR 200
Revision date : 02.03.2021
Print date : 10.09.2021

Version (Revision) : 4.0.1 (4.0.0)

No further relevant information available.

Sensitisation to the respiratory tract

No further relevant information available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No further relevant information available.

Germ cell mutagenicity

No further relevant information available.

Reproductive toxicity

No further relevant information available.

STOT-single exposure

No further relevant information available.

STOT-repeated exposure

No further relevant information available.

Aspiration hazard

No further relevant information available.

11.2 Information on other hazards

Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

Other adverse effects

Has degreasing effect on the skin. Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.

Additional information

Preparation not tested. The statement is derived from the properties of the single components.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3)

Species : Fish

Evaluation parameter : Acute (short-term) fish toxicity

Effective dose : 80 mg/l

Exposure time : 96 h

Parameter : LC50 (DISODIUM METASILICATE ; CAS No. : 6834-92-0)

Species : Fish

Evaluation parameter : Acute (short-term) fish toxicity

Effective dose : 2320 mg/l

Exposure time : 96 h

Parameter : LC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)

Species : Cyprinus carpio (Common Carp)

Evaluation parameter : Acute (short-term) fish toxicity

Effective dose : > 100 mg/l

Exposure time : 96 h

Parameter : LC50 (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)

Species : Cyprinus carpio (Common Carp)

Evaluation parameter : Acute (short-term) fish toxicity

Effective dose : > 100 mg/kg

Exposure time : 96 h

Chronic (long-term) fish toxicity

Parameter : NOEC (ALANINE N,N-BIS(CARBOXYMETHYL), -TRINATRIUMSALT IN WATER ;

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Bio-Circle STAR 200
Revision date : 02.03.2021
Print date : 10.09.2021

Version (Revision) : 4.0.1 (4.0.0)

CAS No. : 164462-16-2)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : = 100 mg/l
Exposure time : 28 D
Method : OECD 204

Acute (short-term) toxicity to crustacea

Parameter : EC50 (DISODIUM METASILICATE ; CAS No. : 6834-92-0)

Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) toxicity to crustacea
Effective dose : 1700 mg/l
Exposure time : 48 h
Method : OECD 202

Parameter : EC50 (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)

Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) toxicity to crustacea
Effective dose : > 100 mg/l
Exposure time : 48 h

Parameter : EC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)

Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) toxicity to crustacea
Effective dose : > 100 mg/l
Exposure time : 48 h

Chronic (long-term) toxicity to crustacea

Parameter : NOEC (ALANINE N,N-BIS(CARBOXYMETHYL), -TRINATRIUMSALT IN WATER ; CAS No. : 164462-16-2)

Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) toxicity to crustacea
Effective dose : >= 100 mg/l
Exposure time : 21 D
Method : Regulation (EC) No. 440/2008, Annex, C.20

Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter : EC50 (DISODIUM METASILICATE ; CAS No. : 6834-92-0)

Species : Scenedesmus subspicatus
Evaluation parameter : Acute (short-term) toxicity to aquatic algae and cyanobacteria
Effective dose : 207 mg/l
Exposure time : 72 h
Method : DIN 38412 / part 9

Parameter : EC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)

Species : Desmodesmus subspicatus
Evaluation parameter : Acute (short-term) toxicity to aquatic algae and cyanobacteria
Effective dose : > 100 mg/l
Exposure time : 72 h

Parameter : EC50 (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)

Species : Desmodesmus subspicatus
Evaluation parameter : Acute (short-term) toxicity to aquatic algae and cyanobacteria
Effective dose : > 100 mg/l
Exposure time : 72 h

Toxicity to microorganisms

Parameter : EC50 (DISODIUM METASILICATE ; CAS No. : 6834-92-0)

Species : Toxicity to microorganisms
Effective dose : > 100 mg/l
Exposure time : 3 h

Parameter : EC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)

Species : Toxicity to microorganisms
Effective dose : > 1000 mg/l

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Bio-Circle STAR 200
Revision date : 02.03.2021
Print date : 10.09.2021

Version (Revision) : 4.0.1 (4.0.0)

Exposure time : 3 h
Parameter : EC50 (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)
Species : Toxicity to microorganisms
Effective dose : > 1000 mg/l

12.2 Persistence and degradability

Biodegradation

Parameter : Biodegradation (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Degradation rate : 99,8 %
Test duration : 28 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301B
Parameter : Biodegradation (SODIUM CUMENESULPHONATE ; CAS No. : 15763-76-5)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Degradation rate : 99,8 %
Test duration : 28 D
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301B

According to the recipe, contains no AOX. The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

12.8 Additional ecotoxicological information

After neutralisation, reduction in toxic effects is observed.

SECTION 13: Disposal considerations

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. List of proposed waste codes/waste designations in accordance with EWC

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste codes/waste designations according to EWC/AVV

07 06 01* - aqueous washing liquids and mother liquors

20 01 29* - detergents containing dangerous substances.

13.2 Additional information

P501 - Dispose of contents/container to industrial incineration plant.

SECTION 14: Transport information

14.1 UN number

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Bio-Circle STAR 200
Revision date : 02.03.2021
Print date : 10.09.2021

Version (Revision) : 4.0.1 (4.0.0)

UN 1760

14.2 UN proper shipping name

Land transport (ADR/RID)

CORROSIVE LIQUID, N.O.S. (POTASSIUM HYDROXIDE · DISODIUM TRIOXOSILICATE)

Sea transport (IMDG)

CORROSIVE LIQUID, N.O.S. (POTASSIUM HYDROXIDE · DISODIUM TRIOXOSILICATE)

Air transport (ICAO-TI / IATA-DGR)

CORROSIVE LIQUID, N.O.S. (POTASSIUM HYDROXIDE · DISODIUM TRIOXOSILICATE)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 8
Classification code : C9
Hazard identification number (Kemler No.) : 80
Tunnel restriction code : E
Special provisions : LQ 5 I · E 1
Hazard label(s) :



8

Sea transport (IMDG)

Class(es) : 8
EmS-No. : F-A / S-B
Special provisions : LQ 5 I · E 1 · IMDG-Code segregation group 18 - Alkalis
Hazard label(s) :



8

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 8
Special provisions : E 1
Hazard label(s) :



8

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : No

Sea transport (IMDG) : No

Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user

None

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

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Bio-Circle STAR 200
Revision date : 02.03.2021
Print date : 10.09.2021

Version (Revision) : 4.0.1 (4.0.0)

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Use restriction according to REACH annex XVII, no. : 3

Restrictions of occupation

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Other regulations (EU)

Labelling for contents according to regulation (EC) No. 648/2004

5 - 15 % non-ionic surfactants

5 - 15 % anionic surfactants

National regulations

Water hazard class (WGK)

Classification according to AwSV - Class : 2 (Obviously hazardous to water)

15.2 Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Indication of changes

08. Personal protection equipment · 14. Environmental hazards - Air transport (ICAO-TI / IATA-DGR)

16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europäisches Übereinkommen über die Beförderung gefährlicher Güter auf der Straße)

AOX: adsorbierbare organisch gebundene Halogene

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

CAS: Chemical Abstracts Service (Unterabteilung der American Chemical Society)

CLP: Verordnung (EG) Nr. 1272/2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen (Classification Labelling and Packaging)

EAK / AVV: europäischer Abfallartenkatalog / Abfallverzeichnis-Verordnung

ECHA: Europäische Chemikalienagentur (European Chemicals Agency)

EINECS: : Altstoffverzeichnis (European Inventory of Existing Commercial Chemical Substances)

GHS: Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien (Globally Harmonized System of Classification and Labelling of Chemicals)

IATA: Internationale Luftverkehrs-Vereinigung (International Air Transport Association)

ICAO: Internationale Zivilluftfahrtorganisation (International Civil Aviation Organization)

IMDG: Gefahrgutkennzeichnung für gefährliche Güter im Seeschiffverkehr (International Maritime Code for Dangerous Goods)

RID: Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr (Règlement concernant le transport international ferroviaire de marchandises dangereuses)

TRGS: Technische Regel für den Umgang mit Gefahrstoffen

VbF: Verordnung über brennbare Flüssigkeiten

VOC: flüchtige organische Verbindung (volatile organic compound)

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

16.3 Key literature references and sources for data

DGUV: GESTIS-Stoffdatenbank

ECHA: Classification And Labelling Inventory

ECHA: Pre-registered Substances

ECHA: Registered Substances

EC_Safety Data Sheet of Suppliers

ESIS: European Chemical Substances Information System

GDL: Gefahrstoffdatenbank der Länder

UBA Rigoletto: Wassergefährdende Stoffe

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council

Regulation (EC) No. 1272/2008 of the European Parliament and of the Council

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Bio-Circle STAR 200
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Version (Revision) : 4.0.1 (4.0.0)

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
