

Safety Data Sheet

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



Trade name : STAR 200
Revision date : 12.06.2019
Print date : 12.06.2019

Version (Revision) : 4.0.0 (3.0.1)

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

1.1 Product identifier

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

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 : STAR 200
Revision date : 12.06.2019
Print date : 12.06.2019

Version (Revision) : 4.0.0 (3.0.1)

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

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

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

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

POTASSIUM CUMENESULFONATE ; REACH registration No. : 01-2119489427-24-XXXX ; EC No. : 248-827-8 ; CAS No. : 28085-69-0

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

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

SODIUM CUMENESULPHONATE ; REACH registration No. : 01-2119489411-37-XXXX ; EC No. : 248-983-7 ; CAS No. : 28348-53-0

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

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

POTASSIUM HYDROXIDE ; REACH registration 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 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 registration 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 registration 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.

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

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. 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 : STAR 200
Revision date : 12.06.2019
Print date : 12.06.2019

Version (Revision) : 4.0.0 (3.0.1)

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

Carbon dioxide (CO₂) Carbon monoxide

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

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

P260 - Do not breathe dust/fume/gas/mist/vapours/spray. 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)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

Trade name : STAR 200
Revision date : 12.06.2019
Print date : 12.06.2019

Version (Revision) : 4.0.0 (3.0.1)

8.1 Control parameters

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL worker (systemic) (POTASSIUM CUMENESULFONATE ; CAS No. : 28085-69-0)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 53,6 mg/m³
Limit value type : DNEL worker (systemic) (SODIUM CUMENESULPHONATE ; CAS No. : 28348-53-0)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 53,6 mg/m³
Limit value type : DNEL worker (systemic) (SODIUM CUMENESULPHONATE ; CAS No. : 28348-53-0)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 7,6 mg/kg
Limit value type : DNEL worker (systemic) (POTASSIUM CUMENESULFONATE ; CAS No. : 28085-69-0)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 7,6 mg/kg

PNEC

Limit value type : PNEC (Aquatic, freshwater) (ALANINE N,N-BIS(CARBOXYMETHYL), - TRINATRIUMSALT IN WATER ; CAS No. : 164462-16-2)
Exposure route : Water (Including sewage plant)
Limit value : 2 mg/l
Limit value type : PNEC (Aquatic, marine water) (ALANINE N,N-BIS(CARBOXYMETHYL), - TRINATRIUMSALT IN WATER ; CAS No. : 164462-16-2)
Exposure route : Water (Including sewage plant)
Limit value : 0,2 mg/l
Limit value type : PNEC (Sediment, freshwater) (ALANINE N,N-BIS(CARBOXYMETHYL), - TRINATRIUMSALT IN WATER ; CAS No. : 164462-16-2)
Limit value : 24 mg/kg
Limit value type : PNEC soil, freshwater (ALANINE N,N-BIS(CARBOXYMETHYL), - TRINATRIUMSALT IN WATER ; CAS No. : 164462-16-2)
Exposure route : Soil
Limit value : 2,5 mg/kg
Limit value type : PNEC (Sewage treatment plant) (ALANINE N,N-BIS(CARBOXYMETHYL), - TRINATRIUMSALT IN WATER ; CAS No. : 164462-16-2)
Exposure route : Water (Including sewage plant)
Limit value : 100 mg/l

8.2 Exposure controls

Personal protection equipment

Eye/face protection



Wear suitable safety goggles in case of splash.

Suitable eye protection
EN 166.

Skin protection

Hand protection

Safety Data Sheet

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



Trade name : STAR 200
Revision date : 12.06.2019
Print date : 12.06.2019

Version (Revision) : 4.0.0 (3.0.1)



Wear protective gloves in case of longer lasting skin contact.

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.

General health and safety measures

Do not put any product-impregnated cleaning rags into your trouser pockets. 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 : Liquid

Colour : red

Odour : odourless

Safety relevant basis data

Solidifying point :	(1013 hPa)	approx.	0	°C
Initial boiling point and boiling range :	(1013 hPa)	approx.	98	°C
Flash point :			not applicable	
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

None

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

Safety Data Sheet

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



Trade name : STAR 200
Revision date : 12.06.2019
Print date : 12.06.2019

Version (Revision) : 4.0.0 (3.0.1)

explosion.

10.4 Conditions to avoid

Do not wash off with acidic cleaning agents.

10.5 Incompatible materials

Metal, base Non-ferrous metal. Aluminium Zinc

10.6 Hazardous decomposition products

Hydrogen

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

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. : 28085-69-0)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (SODIUM CUMENESULPHONATE ; CAS No. : 28348-53-0)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
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 (SODIUM CUMENESULPHONATE ; CAS No. : 28348-53-0)
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 2000 mg/kg
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)

Safety Data Sheet

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



Trade name : STAR 200
Revision date : 12.06.2019
Print date : 12.06.2019

Version (Revision) : 4.0.0 (3.0.1)

Exposure route : Inhalation
Species : Rat
Effective dose : > 2,06 mg/l
Exposure time : 4 h
Parameter : LC50 (SODIUM CUMENESULPHONATE ; CAS No. : 28348-53-0)
Exposure route : Inhalation
Species : Rat
Effective dose : > 5 mg/l
Exposure time : 4 h

Irritant and corrosive effects

Primary irritation to the skin

No further relevant information available.

Irritation to eyes

No further relevant information available.

Sensitisation

In case of skin contact

No further relevant information available.

In case of inhalation

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 Toxicokinetics, metabolism and distribution

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

11.3 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.

11.4 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)

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



Trade name : STAR 200
Revision date : 12.06.2019
Print date : 12.06.2019

Version (Revision) : 4.0.0 (3.0.1)

Species : Fish
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 2320 mg/l
Exposure time : 96 h
Parameter : LC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 28085-69-0)
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. : 28348-53-0)
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 ; 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) daphnia toxicity
Parameter : EC50 (DISODIUM METASILICATE ; CAS No. : 6834-92-0)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 1700 mg/l
Exposure time : 48 h
Method : OECD 202
Parameter : EC50 (DISODIUM METASILICATE ; CAS No. : 6834-92-0)
Species : Scenedesmus subspicatus
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 207 mg/l
Exposure time : 72 h
Method : DIN 38412 / part 9
Parameter : EC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 28085-69-0)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 100 mg/l
Exposure time : 48 h

Chronic (long-term) daphnia toxicity
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) daphnia toxicity
Effective dose : >= 100 mg/l
Exposure time : 21 d
Method : Regulation (EC) No. 440/2008, Annex, C.20

Acute (short-term) algae toxicity
Parameter : EC50 (SODIUM CUMENESULPHONATE ; CAS No. : 28348-53-0)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 100 mg/l
Exposure time : 48 h
Parameter : EC50 (SODIUM CUMENESULPHONATE ; CAS No. : 28348-53-0)
Species : Desmodesmus subspicatus

Safety Data Sheet

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



Trade name : STAR 200
Revision date : 12.06.2019
Print date : 12.06.2019

Version (Revision) : 4.0.0 (3.0.1)

Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : > 100 mg/l
Exposure time : 72 h
Parameter : EC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 28085-69-0)
Species : Desmodesmus subspicatus
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : > 100 mg/l
Exposure time : 72 h

Bacteria toxicity

Parameter : EC50 (DISODIUM METASILICATE ; CAS No. : 6834-92-0)
Species : Bacteria toxicity
Effective dose : > 100 mg/l
Exposure time : 3 h
Parameter : EC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 28085-69-0)
Species : Bacteria toxicity
Effective dose : > 1000 mg/l
Exposure time : 3 h
Parameter : EC50 (SODIUM CUMENESULPHONATE ; CAS No. : 28348-53-0)
Species : Bacteria toxicity
Effective dose : > 1000 mg/l

12.2 Persistence and degradability

Biodegradation

Parameter : Biodegradation (POTASSIUM CUMENESULFONATE ; CAS No. : 28085-69-0)
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. : 28348-53-0)
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.

12.6 Other adverse effects

No information available.

12.7 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

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



Trade name : STAR 200
Revision date : 12.06.2019
Print date : 12.06.2019

Version (Revision) : 4.0.0 (3.0.1)

13.1 Waste treatment methods

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

07 06 01* - aqueous washing liquids and mother liquors
20 01 29* - detergents containing dangerous substances.

Waste code packaging

15 01 02 - plastic packaging.

Waste treatment options

Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Handle contaminated packages in the same way as the substance itself.

13.2 Additional information

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

SECTION 14: Transport information

14.1 UN number

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 51 · E 1
Hazard label(s) :



8

Sea transport (IMDG)

Class(es) : 8
EmS-No. : F-A / S-B
Special provisions : LQ 51 · 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

Safety Data Sheet

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



Trade name : STAR 200
Revision date : 12.06.2019
Print date : 12.06.2019

Version (Revision) : 4.0.0 (3.0.1)

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) : Yes

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

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

AT: Labelling according to Austrian regulations (Chemikaliengesetz/ChemV).

CH: Chemikalienverordnung (ChemV) and Chemikalien-Risikoreduktions-Verordnung (Chem RRV) are complied.

Water hazard class (WGK)

Classification according to AwSV - Class : 2 (Significant 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

03. Hazardous ingredients · 08. DNEL/DMEL · 15. Restrictions on use · 15. Water hazard class (WGK)

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

Safety Data Sheet

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



Trade name : STAR 200
Revision date : 12.06.2019
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Version (Revision) : 4.0.0 (3.0.1)

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

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.