

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



Trade name : ALUSTAR 300
Revision date : 14.04.2016
Print date : 16.05.2017

Version (Revision) : 4.0.0 (3.0.0)

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

1.1 Product identifier

ALUSTAR 300

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

Washing and cleaning products (including solvent based 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]

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

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

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/shower.

2.3 Other hazards

None

Safety Data Sheet

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



Trade name : ALUSTAR 300
Revision date : 14.04.2016
Print date : 16.05.2017

Version (Revision) : 4.0.0 (3.0.0)

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Hazardous ingredients

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

Weight fraction : $\geq 10 - < 20$ %

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

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

2-(2-BUTOXYETHOXY)ETHANOL ; REACH registration No. : 01-2119475104-44-XXXX ; EC No. : 203-961-6; CAS No. : 112-34-5

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

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

POTASSIUM CUMENESULFONATE ; REACH registration 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

(1-METHYLETHYL)BENZENESULFONIC ACID, SODIUM SALT ; REACH registration 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

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

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

General information

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

Following inhalation

In case of respiratory tract irritation, consult a physician. 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

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.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Safety Data Sheet

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



Trade name : ALUSTAR 300
Revision date : 14.04.2016
Print date : 16.05.2017

Version (Revision) : 4.0.0 (3.0.0)

Suitable extinguishing media

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

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. 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

Do not breathe gas/fumes/vapour/spray. Keep container tightly closed.

7.2 Conditions for safe storage, including any incompatibilities

Keep locked up. Keep/Store only in original container. Protect against Frost

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

8.1 Control parameters

Occupational exposure limit values

2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 10 ppm / 67 mg/m³

Peak limitation : 1,5(l)

Remark : Y

Version : 02.04.2014

Limit value type (country of origin) : STEL (EC)

Limit value : 15 ppm / 101,2 mg/m³

Version : 07.02.2006

Limit value type (country of origin) : TWA (EC)

Safety Data Sheet

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



Trade name : ALUSTAR 300
Revision date : 14.04.2016
Print date : 16.05.2017

Version (Revision) : 4.0.0 (3.0.0)

Limit value : 10 ppm / 67,5 mg/m³
Version : 07.02.2006

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type :	DNEL worker (local) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	67,5 mg/m ³
Limit value type :	DNEL worker (local) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	101,2 mg/m ³
Limit value type :	DNEL worker (systemic) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	67,5 mg/m ³
Limit value type :	DNEL worker (systemic) (DISODIUM METASILICATE ; CAS No. : 6834-92-0)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	6,22 mg/m ³
Limit value type :	DNEL worker (systemic) (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	53,6 mg/m ³
Limit value type :	DNEL worker (systemic) ((1-METHYLETHYL)BENZENESULFONIC ACID, SODIUM SALT ; CAS No. : 15763-76-5)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	53,6 mg/m ³
Limit value type :	DNEL worker (systemic) ((1-METHYLETHYL)BENZENESULFONIC ACID, SODIUM SALT ; CAS No. : 15763-76-5)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	7,6 mg/kg
Limit value type :	DNEL worker (systemic) (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	7,6 mg/kg
Limit value type :	DNEL worker (systemic) (DISODIUM METASILICATE ; CAS No. : 6834-92-0)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	1,49 mg/kg
Limit value type :	DNEL worker (systemic) (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	20 mg/kg

8.2 Exposure controls

Personal protection equipment

Eye/face protection



Wear suitable safety goggles in case of splash.

Safety Data Sheet

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



Trade name : ALUSTAR 300
Revision date : 14.04.2016
Print date : 16.05.2017

Version (Revision) : 4.0.0 (3.0.0)

Suitable eye protection

EN 166.

Skin protection

Hand protection



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.

Respiratory protection



Respiratory protection necessary at: exceeding exposure limit values

Suitable respiratory protection apparatus

Combination filtering device (EN 14387)

Type : A

Remark

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

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 : translucent

Odour : odourless

Safety relevant basis data

Initial boiling point and boiling range :	(1013 hPa)	ca.	95 °C
Flash point :			not relevant
Ignition temperature :			not relevant
Lower explosion limit :			not relevant
Upper explosion limit :			not relevant
Density :	(20 °C)	ca.	1,09 g/cm ³
pH :			13 - 14
Maximum VOC content (EC) :			0 Wt %

Safety Data Sheet

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



Trade name : ALUSTAR 300
Revision date : 14.04.2016
Print date : 16.05.2017

Version (Revision) : 4.0.0 (3.0.0)

Maximum VOC content (Switzerland)

5 Wt %

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Exothermic reaction with: Acid

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter :	LD50 (ALCOHOLS, C10-C12, ETHOXYLATED, PROPOXYLATED ; CAS No. : 68154-97-2)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (ALANINE N,N-BIS(CARBOXYMETHYL), -TRINATRIUMSALT IN WATER)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 4000 mg/kg
Parameter :	LD50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Parameter :	LD50 ((1-METHYLETHYL)BENZENESULFONIC ACID, SODIUM SALT ; CAS No. : 15763-76-5)
Exposure route :	Oral
Species :	Rat
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 (DISODIUM METASILICATE ; CAS No. : 6834-92-0)
Exposure route :	Oral
Species :	Rat
Effective dose :	1152 - 1349 mg/kg
Parameter :	LD50 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Exposure route :	Oral
Species :	Mouse

Safety Data Sheet

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



Trade name : ALUSTAR 300
Revision date : 14.04.2016
Print date : 16.05.2017

Version (Revision) : 4.0.0 (3.0.0)

Effective dose : 5530 mg/kg
Method : OECD 401

Acute dermal toxicity

Parameter : LD50 (ALANINE N,N-BIS(CARBOXYMETHYL), -TRINATRIUMSALT IN WATER)
Exposure route : Dermal
Species : Rat
Effective dose : > 4000 mg/kg
Method : OECD 402

Parameter : LD50 ((1-METHYLETHYL)BENZENESULFONIC ACID, SODIUM SALT ; CAS No. : 15763-76-5)

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

Parameter : LD50 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)

Exposure route : Dermal
Species : Rabbit
Effective dose : 2764 mg/kg
Method : OECD 402

Acute inhalation toxicity

Parameter : LC50 (ALANINE N,N-BIS(CARBOXYMETHYL), -TRINATRIUMSALT IN WATER)
Exposure route : Inhalation
Species : Rat
Effective dose : > 5 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 ((1-METHYLETHYL)BENZENESULFONIC ACID, SODIUM SALT ; CAS No. : 15763-76-5)

Exposure route : Inhalation
Species : Rat
Effective dose : > 5 mg/l
Exposure time : 4 h

11.2 Toxicokinetics, metabolism and distribution

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

11.3 Other adverse effects

May be absorbed through the skin. Has degreasing effect on the skin. Has degreasing effect on the skin.

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 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Species : Lepomis macrochirus (Bluegill)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 1300 mg/l
Exposure time : 96 h

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



Trade name : ALUSTAR 300
Revision date : 14.04.2016
Print date : 16.05.2017

Version (Revision) : 4.0.0 (3.0.0)

Method : OECD 203
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 ((1-METHYLETHYL)BENZENESULFONIC ACID, SODIUM SALT ; 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

Acute (short-term) daphnia toxicity

Parameter : EC50 (ALCOHOLS, C10-C12, ETHOXYLATED, PROPOXYLATED ; CAS No. : 68154-97-2)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 1 - 10 mg/l
Exposure time : 48 h
Method : OECD 202
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. : 164524-02-1)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 100 mg/l
Exposure time : 48 h
Parameter : EC50 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 100 mg/l
Exposure time : 48 h
Method : OECD 202

Acute (short-term) algae toxicity

Parameter : EC50 (ALANINE N,N-BIS(CARBOXYMETHYL), -TRINATRIUMSALT IN WATER)
Species : Scenedesmus subspicatus
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : > 200 mg/l
Exposure time : 72 h
Parameter : EC50 (ALANINE N,N-BIS(CARBOXYMETHYL), -TRINATRIUMSALT IN WATER)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity

Safety Data Sheet

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



Trade name : ALUSTAR 300
Revision date : 14.04.2016
Print date : 16.05.2017

Version (Revision) : 4.0.0 (3.0.0)

Effective dose : > 200 mg/l
Exposure time : 48 h
Method : OECD 202
Parameter : EC50 ((1-METHYLETHYL)BENZENESULFONIC ACID, SODIUM SALT ; CAS No. : 15763-76-5)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 100 mg/l
Exposure time : 48 h
Parameter : EC50 ((1-METHYLETHYL)BENZENESULFONIC ACID, SODIUM SALT ; CAS No. : 15763-76-5)
Species : Desmodesmus subspicatus
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : > 100 mg/l
Exposure time : 72 h
Parameter : EC50 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Species : Scenedesmus subspicatus
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : > 100 mg/l
Exposure time : 48 h
Method : OECD 201
Parameter : EC50 (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
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. : 164524-02-1)
Species : Bacteria toxicity
Effective dose : > 1000 mg/l
Exposure time : 3 h
Parameter : EC50 ((1-METHYLETHYL)BENZENESULFONIC ACID, SODIUM SALT ; CAS No. : 15763-76-5)
Species : Bacteria toxicity
Effective dose : > 1000 mg/l
Parameter : EC10 (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Species : Bacteria toxicity
Effective dose : > 1995 mg/l
Exposure time : 30 min

12.2 Persistence and degradability

Biodegradation

Parameter : Biodegradation (ALCOHOLS, C10-C12, ETHOXYLATED, PROPOXYLATED ; CAS No. : 68154-97-2)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Effective dose : > 60 %
Exposure time : 28 d
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C
Parameter : BOD (% of ThOD) (ALANINE N,N-BIS(CARBOXYMETHYL), -TRINATRIUMSALT IN WATER)
Inoculum : Biodegradation
Evaluation parameter : Aerobic

Safety Data Sheet

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



Trade name : ALUSTAR 300
Revision date : 14.04.2016
Print date : 16.05.2017

Version (Revision) : 4.0.0 (3.0.0)

Effective dose : 80 - 90 %
Exposure time : 28 d
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D
Parameter : Biodegradation (POTASSIUM CUMENESULFONATE ; CAS No. : 164524-02-1)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Effective dose : > 60 %
Exposure time : 28 d
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C
Parameter : Biodegradation ((1-METHYLETHYL)BENZENESULFONIC ACID, SODIUM SALT ; CAS No. : 15763-76-5)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Effective dose : > 60 %
Exposure time : 28 d
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C
Parameter : Biodegradation (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Inoculum : Biodegradation
Effective dose : 90 - 100 %
Exposure time : 14 d
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301E/ EEC 92/69/V, C.4-B
Parameter : Biodegradation (2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5)
Inoculum : Biodegradation
Effective dose : 90 - 100 %
Exposure time : 8 d
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 302B/ ISO 9888/ EEC 92/69/V, C.9

According to the recipe, contains no AOX. The surfactants contained in this preparation comply 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

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.

Safety Data Sheet

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



Trade name : ALUSTAR 300
Revision date : 14.04.2016
Print date : 16.05.2017

Version (Revision) : 4.0.0 (3.0.0)

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.

Other disposal recommendations

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

13.2 Additional information

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

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. (DISODIUM TRIOXOSILICATE)

Sea transport (IMDG)

CORROSIVE LIQUID, N.O.S. (DISODIUM TRIOXOSILICATE)

Air transport (ICAO-TI / IATA-DGR)

CORROSIVE LIQUID, N.O.S. (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 · 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

Safety Data Sheet

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



Trade name : ALUSTAR 300
Revision date : 14.04.2016
Print date : 16.05.2017

Version (Revision) : 4.0.0 (3.0.0)

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

SECTION 15: Regulatory information

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

EU legislation

Other regulations (EU)

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.

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)

Class : 2 (Hazardous to water) Classification according to VwVwS

Other regulations, restrictions and prohibition regulations

Betriebssicherheitsverordnung (BetrSichV)

No flammable liquid according to BetrSichV.

15.2 Chemical Safety Assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

03. Hazardous ingredients · 14. Transport hazard class(es) - Land transport (ADR/RID) · 14. Transport hazard class(es) - Sea transport (IMDG) · 15. Water hazard class (WGK)

16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX: adsorbable organohalogenes

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CLP: Classification Labelling and Packaging (Regulation (EC) No. 1272/2008)

EAK / AVV: europäischer Abfallschlüsselkatalog (european waste catalogue)

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

RCP: reciprocal calculation procedure

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

TRGS: Technische Regel für den Umgang mit Gefahrstoffen

VbF: Verordnung über brennbare Flüssigkeiten

VOC: volatile organic compound

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse (water hazardous class)

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



Trade name : ALUSTAR 300
Revision date : 14.04.2016
Print date : 16.05.2017

Version (Revision) : 4.0.0 (3.0.0)

16.3 Key literature references and sources for data

DGUV: GESTIS-Stoffdatenbank
ECHA: Classification And Labelling Inventory
ECHA: 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

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

No information available.

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

H290	May be corrosive to metals.
H314	Causes severe skin burns and 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.
