

JULABO GmbH

77960 Seelbach

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

Aqua-stabil

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

Water disinfectant

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

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Address enquiries to

Technical information	info@julabo.com
Safety Data Sheet	sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body	+49 (0)89-19240 (24h) (english)
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SECTION 2: Hazards identification
2.1 Classification of the substance or mixture
2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements
Labelling according to Regulation (EC) 1272/2008

Hazard pictograms	none
Signal word	none
Hazard statements	H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P273 Avoid release to the environment. P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.
Biocide (528/2012/CE) contains:	0,2 g/100g Polymeric N,N-Dimethyl-2-hydroxypropylammoniumchloride 0,03 g/100g Polyhexamethylene biguanidine hydrochloride Registration: -

2.3 Other hazards

Environmental hazards	Does not contain any PBT or vPvB substances.
Other hazards	Further hazards were not determined with the current level of knowledge.

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SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
0,2	Polymeric N,N-Dimethyl-2-hydroxypropylammoniumchloride CAS: 25988-97-0, EINECS/ELINCS: Polymer GHS/CLP: Acute Tox. 4: H302 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M = 10 EEC: Xn-N, R 22-50/53
0,03	Poly(hexamethylenebiguanide) hydrochloride CAS: 27083-27-8, EINECS/ELINCS: polymer, EU-INDEX: 616-207-00-X GHS/CLP: Acute Tox. 4: H302 - Skin Sens. 1B: H317 - Eye Dam. 1: H318 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 - Carc. 2: H351 - STOT RE 1: H372, M = 10 EEC: T-N, R 48/23-22-40-41-43-50/53

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements and R-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Change soaked clothing.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek for medical treatment.
Skin contact	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Seek medical advice immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.
Extinguishing media that must not be used	Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.
Use personal protective clothing.

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6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

No special measures necessary if used correctly.

Do not eat, drink, smoke or take drugs at work.
Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.
Do not store together with food and animal food/diet.
Keep container tightly closed.
Protect from heat/overheating.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection**Ingredients with occupational exposure limits to be monitored (GB)****8.1 Control parameters**

not applicable

8.2 Exposure controls**Additional advice on system design** Ensure adequate ventilation on workstation.**Eye protection** Safety glasses.**Hand protection** Butyl rubber, >480 min (EN 374).
The details concerned are recommendations. Please contact the glove supplier for further information.**Skin protection** Not required under normal conditions.**Other** Avoid contact with eyes and skin.
Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.**Respiratory protection** Not required under normal conditions.**Thermal hazards** none**Delimitation and monitoring of the environmental exposition** See SECTION 6+7.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	bluish
Odor	characteristic
Odour threshold	not determined
pH-value	not determined
pH-value [1%]	not determined
Boiling point [°C]	ca. 100
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not applicable
Density [g/ml]	not determined
Bulk density [kg/m ³]	not applicable
Solubility in water	miscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	not determined
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	not determined

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

not applicable

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
0,2	Polymeric N,N-Dimethyl-2-hydroxypropylammoniumchloride, CAS: 25988-97-0
	LD50, dermal, Rat: > 2000 mg/kg bw (Lit.).
	LD50, oral, Rat (female): 1672 mg/kg.
	NOAEL, oral, Rat: 625 mg/kg/28d.
	NOAEL, oral, Rat (female): 50 mg/kg/90d.

Serious eye damage/irritation not determined

Skin corrosion/irritation not determined

Respiratory or skin sensitisation not determined

Specific target organ toxicity — single exposure not determined

Specific target organ toxicity — repeated exposure not determined

Mutagenicity not determined

Reproduction toxicity not determined

Carcinogenicity not determined

General remarks

Toxicological data of complete product are not available.
No classification on the basis of the calculation procedure of the preparation directive.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
0,2	Polymeric N,N-Dimethyl-2-hydroxypropylammoniumchloride, CAS: 25988-97-0
	LC50, (96h), <i>Oncorhynchus mykiss</i> : 0,077 mg/l.
	EC50, (3h), Activated sludge: 168 mg/l.
	EC50, (48h), <i>Daphnia magna</i> : 0,084 mg/l.
	EbC50, (72h), <i>Desmodesmus subspicatus</i> : 0,09 mg/l.
0,03	Poly(hexamethylenebiguanide) hydrochloride, CAS: 27083-27-8
	LC50, (96h), <i>Oncorhynchus mykiss</i> : 0,026 mg/l.
	EC50, Bacteria: 38 mg/l (4h).
	EC50, (48h), <i>Daphnia magna</i> : 0,09 mg/l (OECD 202).
	ErC50, (72h), <i>Pseudokirchneriella subcapitata</i> : 0,0191 mg/l (OECD 201).

12.2 Persistence and degradability

Behaviour in environment compartments not determined

Behaviour in sewage plant AOX-advice: No dangerous components.

Biological degradability The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.
Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

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12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

The product was classified on the basis of the calculation procedure of the preparation directive.

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
Coordinate disposal with the authorities if necessary.

Waste no. (recommended) 070601*

Contaminated packaging

Uncontaminated packaging may be reused.

Waste no. (recommended) 150110*
150102

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EEC-REGULATIONS	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people	none
- VOC (1999/13/CE)	0 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information**16.1 R-phrases (SECTION 3)**

R 22: Harmful if swallowed.
 R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R 48/23: Toxic - danger of serious damage to health by prolonged exposure through inhalation.
 R 40: Limited evidence of a carcinogenic effect.
 R 41: Risk of serious damage to eyes.
 R 43: May cause sensitisation by skin contact.

16.2 Hazard statements (SECTION 3)

H372 Causes damage to organs through prolonged or repeated exposure if inhaled.
 H351 Suspected of causing cancer.
 H318 Causes serious eye damage.
 H317 May cause an allergic skin reaction.
 H410 Very toxic to aquatic life with long lasting effects.
 H400 Very toxic to aquatic life.
 H302 Harmful if swallowed.

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16.3 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 TLV@/TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.4 Other information**Classification procedure**

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position

SECTION 2 been added: Does not contain any PBT or vPvB substances.
 SECTION 4 been added: If eye irritation persists: Get medical advice/attention.
 SECTION 4 been added: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 SECTION 6 been added: Use personal protective clothing.
 SECTION 7 been added: Protect from heat/overheating.
 SECTION 7 been added: Do not store together with food and animal food/diet.
 SECTION 7 been added: Prevent penetration into the ground.
 SECTION 12 been added: Accumulation in organisms is not expected.



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