Tel.: 05131 446936

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## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 28.05.2018 Version number 2 Revision: 28.05.2018

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

· Date of compilation: 20.05.2015

· 1.1 Product identifier

Trade name: Primax professionelles Algen-Ex

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

No further relevant information available.

- · Application of the substance / the preparation: Algae remover
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer / Supplier:

HGS Gebäudedienste GmbH

Dieselstr. 14-16 D-30827 Garbsen

· E-mail address of the competent person responsible for the Safety Data Sheet: info@hgs-garbsden.de

- · Informing department: Sales
- · 1.4 Emergency telephone number: As above or next toxicological information centre.

## SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms





GHS05

GHS09

- · Signal word Danger
- · Hazard-determining components of labelling:

Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides

· Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children. P103

Read label before use.

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*P273* Avoid release to the environment.

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

*P302+P352 IF ON SKIN: Wash with plenty of soap and water.* 

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· **PBT**: Not applicable. · **vPvB**: Not applicable.

### SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · Description: Aqueous solution

· Dangerous components:		
CAS: 68391-01-5 EINECS: 269-919-4	Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides $\diamondsuit$ Skin Corr. IB, H314; Eye Dam. 1, H318; $\diamondsuit$ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); $\diamondsuit$ Acute Tox. 4, H302	≥3-<5%
CAS: 7173-51-5 EINECS: 230-525-2 Index number: 612-131-00-6	Didecyldimethylammonium chloride $\Leftrightarrow$ Acute Tox. 3, H301; $\Leftrightarrow$ Skin Corr. 1B, H314; $\Leftrightarrow$ Aquatic Acut 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1)	≥0.25-<1% e

<sup>·</sup> Additional information: For the wording of the listed hazard phrases refer to section 16.

## **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing contaminated by the product.
- · After inhalation: Supply fresh air; consult doctor in case of symptoms.
- · After skin contact:

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water.

Remove contact lenses, if present and easy to do.

Use eye protection.

Call a doctor immediately.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Seek medical treatment.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed symptomatic treatment

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents Use fire fighting measures that suit the environment.
- · For safety reasons unsuitable extinguishing agents none
- · 5.2 Special hazards arising from the substance or mixture

Can be released in case of fire:

Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)

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5.3 Advice for firefighters

· Protective equipment: Wear self-contained breathing apparatus.

· Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

## · 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Avoid contact with skin and eyes.

*Use breathing protection against the effects of fumes/dust/aerosol.* 

- 6.2 Environmental precautions: Do not allow to enter drainage system, surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Send for recovery or disposal in suitable containers.

Dispose of the material collected according to regulations.

· 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with skin and eyes.

Do not inhale aerosols.

- Information about protection against explosions and fires: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- ·Storage
- · Requirements to be met by storerooms and containers:

Store in the original container.

Observe all local and national regulations for storage of water polluting products.

- Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Store container in a well ventilated position.

Store in cool, dry conditions in well sealed containers.

· 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · 8.1 Control parameters
- · Components with critical values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

·DNELs		
7173-51-5	Didecyldimethylammonium chloride	
Dermal	DNEL long-term exposure - systemic effects	8.6 mg/kg bw/d (worker)
Inhalative	DNEL long-term exposure - systemic effects	18.2 mg/m³ (worker)
		(Contd. on maga A

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#### · PNECs

### 7173-51-5 Didecyldimethylammonium chloride

PNEC 0.595 mg/l (STP (sewage treatment plant)) (Assessment factor 10)

PNEC 2 µg/l (aqua (freshwater)) (Assessment factor 10)

0.29 µg/l (aqua (intermittent releases)) (Assessment factor 100)

0.2 µg/l (aqua (marine water)) (Assessment factor 100)

PNEC | 2.82 mg/kg (sediment (freshwater)) (Assessment factor 1)

0.28 mg/kg (sediment (marine water)) (Assessment factor 10)

1.4 mg/kg (soil) (Assessment factor 50)

#### · 8.2 Exposure controls

· Personal protective equipment

## · General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

*Instantly remove any contaminated garments.* 

Wash hands during breaks and at the end of the work.

Use skin protection cream for preventive skin protection.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

· Breathing equipment: Use breathing protection when aerosol or mist is formed.

### Protection of hands:

Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

Check the permeability prior to each renewed use of the glove.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

#### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

### Penetration time of glove material

Protective gloves should be replaced at first signs of wear.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Safety glasses with side-shields (frame goggles) (e.g. EN 166)
- · Body protection:

Protective work clothing

Body protection must be chosen depending on activity and possible exposure.

#### · Limitation and supervision of exposure into the environment

Do not allow to enter drainage system, surface or ground water.

### **SECTION 9: Physical and chemical properties**

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: liquid
Colour: colourless
clear

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characteristic	
not determined	
7.5	
not determined e: ~ 100 °C	
not applicable	
Not applicable.	
Not determined.	
Product is not selfigniting.	
Product is not explosive.	
Not determined. Not determined. not alongified as oridining	
v o	
~ 1.0 g/cm³ Not determined. Not determined. Not determined.	
fully miscible	
Not determined.	
not determined not determined	
	not determined 7.5  not determined e: ~ 100 °C  not applicable  Not applicable.  Not determined.  Product is not selfigniting.  Product is not explosive.  Not determined. Not determined. not classified as oxidising  23 hPa  ~ 1.0 g/cm³  Not determined.  fully miscible  Not determined.

## SECTION 10: Stability and reactivity

- 10.1 Reactivity see 10.3
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: Strong oxidizing agents
- · 10.6 Hazardous decomposition products: Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)

## SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values that are relevant for classification:

68391-01-5 Quaternary	ammonium com	ipounds, benzyl-	C12-18-alky	vldimethyl.	chlorides

 Oral
 LD50
 ~344 mg/kg (rat)

 Dermal
 LD50
 ~3,340 mg/kg (rabbit)

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7173-51-5	Didecyldimethylamn	onium chloride

 Oral
 LD50
 238 mg/kg (rat) (OECD 401)

 Dermal
 LD50
 3,342 mg/kg (rabbit)

- Primary irritant effect:
- · Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye damage.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Subacute to chronic toxicity: no data available
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

According to present knowledge no CMR-effects known.

- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxi	
68391-01-5	Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides
LC50/96 h	0.28 mg/l (fathead minnow (pimephales promelas)) (US-EPA)
EC50/3 h	7.75 mg/l (bacteria) (OECD 209)
EC50/48 h	0.016 mg/l (water flea (daphnia magna)) (OECD 202)
ErC50/72 h	0.049 mg/l (green algae (Scenedesmus capricornutum)) (OECD 201)
NOEC	0.032 mg/l (fathead minnow (pimephales promelas)) (EPA-FIFRA) 34 d
NOEC/21 d	0.0042 mg/l (water flea (daphnia magna)) (EPA-FIFRA)
7173-51-5 D	idecyldimethylammonium chloride
EC10/16 h	0.13 mg/l (pseudomonas putida) (DIN 38412 Part 8)
LC0/96 h	0.97 mg/l (zebra fish (danio rerio)) (OECD Guideline 203)
LC50/96 h	0.19 mg/l (fathead minnow (pimephales promelas)) (US-EPA)
	1 mg/l (rainbow trout (oncorhynchus mykiss)) (OECD 203)
EC50/3 h	27.2 mg/l (bacteria)
EC50/3 h	11 mg/l (bacteria) (OECD 209)
EC50/48 h	0.057 mg/l (water flea (daphnia magna)) (OECD Guideline 202)
ErC50/72 h	0.062 mg/l (algae (pseudokirchneriella subcapitata)) (OECD Guideline 201)
EbC50/96 h	0.026 mg/l (algae (selenastrum capricornutum)) (OECD 201)
NOEC	0.01 mg/l (water flea (daphnia magna)) ((exposure time: 21d) OECD 211)
	0.032 mg/l (zebra fish (danio rerio)) ((exposure time: 34d) OECD 210)

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Very toxic to aquatic life with long lasting effects.

Do not allow product to reach ground water, water bodies or sewage system.

Water hazard class 2 (Self-assessment): hazardous for water

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- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

## SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

· European waste catalogue:

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleaning agent: Water, if necessary with cleaning agent.

· 14.1 UN-Number	
· ADR, IMDG, IATA	UN3082
14.2 UN proper shipping name	
ADR	Void
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
	LIQUID, N.O.S. ((C12-C18)
	Alkyldimethylbenzylammonium chloride, DIDECYLDIMETHYLAMMONIUM CHLORIDE),
	MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
	LIQUID, N.O.S. ((C12-C18)
	Alkyldimethylbenzylammonium chloride, DIDECYLDIMETHYLAMMONIUM CHLORIDE)
ADR	
Class	9 (M6) Miscellaneous dangerous substances and articles 9
Class	, ,
Class Label	, ,
Class Label	, ,
Class Label IMDG, IATA Class	9
Class Label IMDG, IATA  Class Label Class Label	9  9 Miscellaneous dangerous substances and articles.
Class Label IMDG, IATA	9  9 Miscellaneous dangerous substances and articles.

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	(Contd. o
Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and
	articles.
Kemler Number:	90
EMS Number:	F-A,S-F
Stowage Category	A
14.7 Transport in bulk according to Ann	nex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ):	5L
Excepted quantities $(EQ)$	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category:	3
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
- · · · · · · · · · · · · · · · · · · ·	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	Void

## SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations
- Information about limitation of use: Employment restrictions concerning young persons must be observed.
- Decree to be applied in case of technical fault: Directive 2012/18/EU does not apply.
- · Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Reasons for changes:

Changes in classification and labelling Revised transport classification

#### · Relevant phrases

The(se)  $\tilde{H}$ -phrase(s) are those of the ingredient(s) and do(es) not necessarily represent the classification of the product.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

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H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

#### Department issuing SDS:

C.S.B. GmbH Phone: +49 - 2151 - 652086-0 Düsseldorfer Str. 113 Fax: +49 - 2151 - 652086-9

47809 Krefeld / Germany

#### · 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)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 2. 11azardous to the aquatic environment - tong-term aquatic nazard - C

\* Data compared to the previous version altered.

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