

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

Printing date 20.11.2020

Version: 7

Revision: 20.11.2020

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

**1.1 Product identifier**

Trade name: **BIOTECT AV (PMC n 20711)**

Article number: 58840007

UFI: EV9P-WJR7-DF53-M3JX

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

**Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category PC35 Washing and cleaning products (including solvent based products)

**Application of the substance / the mixture**

Disinfectant

Biocide

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:**

ZEP UK Ltd

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**Further information obtainable from:**

Customer Service

NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710

B: Tel: +32 2 347 0117 Fax: +32 2 347 1395

IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61

UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

**1.4 Emergency telephone number:** NHS +44 0845 46 47 (England or Wales); +44 08454 24 24 24 (Scotland)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**

Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

STOT SE 3 H335 May cause respiratory irritation.

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

**2.2 Label elements**

**Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.

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· **Hazard pictograms**

GHS05    GHS07

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

2-aminoethanol  
 potassium carbonate  
 didecyldimethylammonium chloride  
 propan-2-ol

· **Hazard statements**

H290 *May be corrosive to metals.*  
 H314 *Causes severe skin burns and eye damage.*  
 H335 *May cause respiratory irritation.*  
 H412 *Harmful to aquatic life with long lasting effects.*

· **Precautionary statements**

P260 *Do not breathe mist/vapours/spray.*  
 P280 *Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.*  
 P303+P361+P353 *IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].*  
 P304+P340 *IF INHALED: Remove person to fresh air and keep comfortable for breathing.*  
 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** *The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.*· **Results of PBT and vPvB assessment**

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

## SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**· **Description:** *Mixture of substances listed below with nonhazardous additions.*· **Dangerous components:**

CAS: 141-43-5 EINECS: 205-483-3 Index number: 603-030-00-8 Reg.nr.: 01-2119486455-28-xxxx	2-aminoethanol ⚠ Skin Corr. 1B, H314 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332 ⚠ Aquatic Chronic 3, H412	5-8%
CAS: 7173-51-5 EINECS: 230-525-2 Index number: 612-131-00-6	didecyldimethylammonium chloride ⚠ Acute Tox. 3, H301 ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318 ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411	5-8%
CAS: 584-08-7 EINECS: 209-529-3 Reg.nr.: 01-2119532646-36-xxxx	potassium carbonate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	5-10%
CAS: 68439-49-6 Reg.nr.: Polymer	Alcohols, C16-18, ethoxylated ⚠ Eye Irrit. 2, H319	5-10%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	1-3%

· **Ingredients according to Detergents Regulation 648/2004/EC** *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 soiled by the product.*· **After inhalation:**

*Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.*

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*In case of unconsciousness place patient stably in side position for transportation.  
Seek immediate medical advice.*

**· After skin contact:**

*Immediately wash with water and soap and rinse thoroughly.  
Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.  
If skin irritation continues, consult a doctor.*

**· After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.*

**· After swallowing:**

*Do not induce vomiting; call for medical help immediately.  
Call a doctor immediately.*

**· 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** *No further relevant information available.*

### SECTION 5: Firefighting measures

**· 5.1 Extinguishing media**

**· Suitable extinguishing agents:**

*Water haze*

*Dry sand*

*Foam*

**· 5.2 Special hazards arising from the substance or mixture** *During heating or in case of fire poisonous gases are produced.*

**· 5.3 Advice for firefighters**

**· Protective equipment:** *Mount respiratory protective device.*

**· Additional information**

*Cool endangered receptacles with water spray.*

*Collect contaminated fire fighting water separately. It must not enter the sewage system.*

*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** *Mount respiratory protective device.*

**· 6.2 Environmental precautions:** *Inform respective authorities in case of seepage into water course or sewage system.*

**· 6.3 Methods and material for containment and cleaning up:**

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

*Use neutralising agent.*

*Dispose contaminated material as waste according to item 13.*

*Ensure adequate ventilation.*

**· 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 disposal information.*

### SECTION 7: Handling and storage

**· 7.1 Precautions for safe handling**

*Ensure good ventilation/exhaustion at the workplace.*

*Prevent formation of aerosols.*

**· Information about fire - and explosion protection:** *Keep respiratory protective device available.*

**· 7.2 Conditions for safe storage, including any incompatibilities**

**· Storage:**

**· Requirements to be met by storerooms and receptacles:** *No special requirements.*

**· Information about storage in one common storage facility:** *Not required.*

**· Further information about storage conditions:** *Keep receptacle tightly sealed.*

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

### SECTION 8: Exposure controls/personal protection

**· Additional information about design of technical facilities:** *No further data; see item 7.*

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· **8.1 Control parameters**· **Ingredients with limit values that require monitoring at the workplace:****CAS: 141-43-5 2-aminoethanol (5-10%)**

WEL (Great Britain)	Short-term value: 7.6 mg/m <sup>3</sup> , 3 ppm Long-term value: 2.5 mg/m <sup>3</sup> , 1 ppm Sk
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IOELV (European Union)	Short-term value: 7.6 mg/m <sup>3</sup> , 3 ppm Long-term value: 2.5 mg/m <sup>3</sup> , 1 ppm Skin
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**CAS: 67-63-0 propan-2-ol (2.5-5%)**

WEL (Great Britain)	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
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**CAS: 1310-73-2 sodium hydroxide (0.1%)**

WEL (Great Britain)	Short-term value: 2 mg/m <sup>3</sup>
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· **DNELs****CAS: 584-08-7 potassium carbonate**

Inhalative	DNEL Long term-systemic mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (consumer) 10 mg/m <sup>3</sup> (worker)
	DNEL Long term local mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (consumer) 10 mg/m <sup>3</sup> (worker)

**CAS: 64-02-8 tetrasodium ethylenediaminetetraacetate**

Oral	DNEL Long term-systemic	28 mg/kg human/day (consumer)
Inhalative	DNEL Acute-systemic mg/m <sup>3</sup>	1.7 mg/m <sup>3</sup> (consumer) 2.8 mg/m <sup>3</sup> (worker)

**CAS: 67-63-0 propan-2-ol**

Oral	DNEL Long term-systemic	26 mg/kg human/day (consumer)
Dermal	DNEL Long term-systemic	319 mg/kg human/day (consumer) 888 mg/kg human/day (worker)
	DNEL Long term-systemic mg/m <sup>3</sup>	89 mg/m <sup>3</sup> (consumer) 500 mg/m <sup>3</sup> (worker)

· **PNECs****CAS: 64-02-8 tetrasodium ethylenediaminetetraacetate**

PNEC Freshwater mg/L	2.8 mg/L
PNEC Marinewater mg/L	0.28 mg/L
PNEC Intermittent release	1.6 (mg/L)
PNEC Soil	0.95 mg/Kg
PNEC Sewage treatment Plant mg/L	57 mg/L

**CAS: 67-63-0 propan-2-ol**

PNEC Freshwater mg/L	140.9 mg/L
PNEC Marinewater mg/L	140.9 mg/L
PNEC Freshwater sediment	552 mg/Kg
PNEC Marine water sediment	552 mg/Kg
PNEC Intermittent release	140.9
PNEC Soil	28 mg/Kg

· **Additional information:** The lists valid during the making were used as basis.· **8.2 Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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· **Protection of hands:**

Protective gloves

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**

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

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· **Not suitable are gloves made of the following materials:** Strong material gloves· **Eye protection:**

Tightly sealed goggles

## SECTION 9: Physical and chemical properties

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

· <b>Form:</b>	Fluid
· <b>Colour:</b>	Colourless
· <b>Odour:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined.

· <b>pH-value at 20 °C:</b>	12.9
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· **Change in condition**

· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Initial boiling point and boiling range:</b>	>103 °C

· <b>Flash point:</b>	Not applicable.
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· <b>Flammability (solid, gas):</b>	Not applicable.
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· <b>Ignition temperature:</b>	385 °C
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· <b>Decomposition temperature:</b>	Not determined.
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· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
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· <b>Explosive properties:</b>	Product does not present an explosion hazard. Not determined.
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· **Explosion limits:**

· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.

· <b>Vapour pressure at 20 °C:</b>	23 hPa
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· <b>Density at 20 °C:</b>	1.06 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.

· <b>Solubility in / Miscibility with water:</b>	Fully miscible.
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· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
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· **Viscosity:**

· <b>Dynamic:</b>	Not determined.
· <b>Kinematic at 20 °C:</b>	25 s (DIN 53211/4)

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<b>Solvent content:</b>	
Organic solvents:	9.5 %
Swiss VOC:	3.24 %
<b>Solids content:</b>	
	0.0 %
<b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **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:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### 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 relevant for classification:**

**ATE (Acute Toxicity Estimates)**

Oral	LD50	2,829 mg/kg
Dermal	LD50	9,654 mg/kg
Inhalative	LC50 / 4 h	51.9 mg/l

**CAS: 141-43-5 2-aminoethanol**

Oral	LD50	1,720 mg/kg (Rat)
Dermal	LD50	1,018 mg/kg (Rabbit)
	LC50 / 48 h	>200 mg/ltr (Lepomus gobbosus (Zonnebaars))

**CAS: 7173-51-5 didecyldimethylammonium chloride**

Oral	LD50	238 mg/kg (Rat) OECD Guideline 401
Dermal	LD50	3,342 mg/kg (Rabbit)
	EC 50 / 96 h	0.026 mg/ltr (-) OECD TG 201

**CAS: 584-08-7 potassium carbonate**

Oral	LD50	>2,000 mg/kg (Rat)
Dermal	LD50	2,000 mg/kg (Rabbit)

**CAS: 68439-49-6 Alcohols, C16-18, ethoxylated**

Dermal	LD50	>2,000 mg/kg (Rat)
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**CAS: 64-02-8 tetrasodium ethylenediaminetetraacetate**

Oral	LD50	1,560 mg/kg
Inhalative	LC50 / 4 h	>1,000 mg/l 2 mg/l (Rat)

**CAS: 67-63-0 propan-2-ol**

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	13,900 mg/kg (rab)
Inhalative	LC50 / 4 h	46-73 mg/l (Rat)
	LC50/ 8 h	12,000-19,000 mg/m3 (Rat)
	EC50 / 24 h	>1,000 mg/ltr (Daphnia magna (water flea))

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**  
Causes serious eye damage.

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- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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**  
May cause respiratory irritation.
- **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 toxicity:

##### CAS: 141-43-5 2-aminoethanol

EC 50 / 48 h >100 mg/ltr (*Daphnia magna* (water flea))

##### CAS: 7173-51-5 didecyldimethylammonium chloride

LC50 / 96 h 0.5 mg/ltr (*Oncorhynchus mykiss* (Rainbow trout))  
OECD guidance 203

0.19 mg/ltr (*Pimephales promelas*)

EC 50 / 48 h 0.062 mg/ltr (*Daphnia magna* (water flea))  
Method: US-EPA-FIFRA

OECD test 301 A 90 (biodegradation in % after 28 days)  
Method: OECD 301 A

OECD test 301 B 72 (biodegradation in % after 28 days)  
Guideline: OECD 301 B

OECD test 302 B 87-94 (biodegradation in % after 28 days)  
Test method: OECD 302 B

##### CAS: 584-08-7 potassium carbonate

LC50 / 96 h 68 mg/ltr (*Oncorhynchus mykiss* (Rainbow trout))

EC 50 / 48 h 430 mg/ltr (*Daphnia magna* (water flea))

##### CAS: 68439-49-6 Alcohols, C16-18, ethoxylated

LC50 / 96 h 3.5 mg/ltr (*Lepomis gobbosus* (Zonnebaars))

OECD test 301 E 91 (biodegradation in % after 28 days)

##### CAS: 64-02-8 tetrasodium ethylenediaminetetraacetate

LC50 / 96 h >1,000 mg/ltr (*Lepomis Macrochirus* (Bluegill Sunfish))  
33-189 mg/ltr (fish)

EC 50 / 48 h 140 mg/ltr (*Daphnia magna* (water flea))

EC 50 / 72 H >300 (*Desmodesmus subspicatus*) (mg/L)

##### CAS: 67-63-0 propan-2-ol

LC50 / 96 h 9,640 mg/ltr (fish)

>1,400 mg/ltr (*Lepomis gobbosus* (Zonnebaars))

6,550 mg/ltr (*Pimephales promelas*)

EC 50 / 48 h 2,285-13,299 mg/ltr (*Daphnia magna* (water flea))

- **12.2 Persistence and degradability** No further relevant information available.

- **Other information:** The product is biodegradable.

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

#### Ecotoxicological effects:

- **Remark:** Harmful to fish

#### Additional ecological information:

##### General notes:

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

Danger to drinking water if even small quantities leak into the ground.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

In accordance with the requirements of the RVO in the Act on Detergents and Cleansing Agents, tensides are biodegradable up to at least 90 %.

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*Harmful to aquatic organisms*

*Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.*

*Do not allow product to reach ground water, water course or sewage system, even in small quantities.*

*Danger to drinking water if even extremely small quantities leak into the ground.*

· **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** Disposal must be made according to official regulations

· **European waste catalogue**

15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 02	plastic packaging

· **Uncleaned packaging:**

· **Recommendation:** Disposal in accordance with administrative provisions

## SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN1719

· **14.2 UN proper shipping name**

· **ADR**

1719 CAUSTIC ALKALI LIQUID, N.O.S.  
(didecyldimethylammonium chloride, ETHANOLAMINE),  
ENVIRONMENTALLY HAZARDOUS

· **IMDG**

CAUSTIC ALKALI LIQUID, N.O.S. (didecyldimethylammonium chloride, ETHANOLAMINE), MARINE POLLUTANT

· **IATA**

CAUSTIC ALKALI LIQUID, N.O.S. (didecyldimethylammonium chloride, ETHANOLAMINE)

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class**

8 (C5) Corrosive substances.

· **Label**

8

· **IMDG**



· **Class**

8 Corrosive substances.

· **Label**

8

· **IATA**



· **Class**

8 Corrosive substances.

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· <b>Label</b>	8
· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	III
· <b>14.5 Environmental hazards:</b> · <b>Marine pollutant:</b>	Product contains environmentally hazardous substances: didecyldimethylammonium chloride No Symbol (fish and tree)
· <b>14.6 Special precautions for user</b> · <b>Hazard identification number (Kemler code):</b> · <b>EMS Number:</b> · <b>Segregation groups</b> · <b>Stowage Category</b> · <b>Segregation Code</b>	Warning: Corrosive substances. 80 F-A,S-B Alkalis A SG22 Stow "away from" ammonium salts SG35 Stow "separated from" SGG1-acids
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>  · <b>Transport category</b> · <b>Tunnel restriction code</b>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 E
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (DIDECYLDIMETHYLAMMONIUM CHLORIDE, ETHANOLAMINE), 8, II, ENVIRONMENTALLY HAZARDOUS

### SECTION 15: Regulatory information

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

Reg. (EC) n. 1272/2008 - CLP;

Reg. (EC) n. 1907/2006 – Reach;

Reg. (EC) n. 2015/830 annex II of REACH;

Reg. (EC) n. 648/04 (Detergents);

Reg. (EC) n. 528/12 (Biocides BPR);

Reg. (EC) n. 1223/2009 (Cosmetics);

Dir. 06/08 ADR – RID - IMDG - IATA;

Dir. 47/08 (Aerosols); Dir. 12/18 (Seveso III);

Dir. 2008/98/CE and Reg. (EC) n.1357/2014 (Waste management)

· **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS05

GHS07

· **Signal word** Danger

· **Hazard-determining components of labelling:**

2-aminoethanol

potassium carbonate

didecyldimethylammonium chloride

propan-2-ol

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**Hazard statements**

- H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

- P260 Do not breathe mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
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.

**Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.  
· **Seveso category E1** Hazardous to the Aquatic Environment  
· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**National regulations:****Technical instructions (air):**

Class	Share in %
NK	10-25

- **Waterhazard class:** Water danger class 3 (Self-assessment): extremely hazardous for water.  
· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

- H225 Highly flammable liquid and vapour.  
H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

**Department issuing SDS:**

Customer Service  
NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710  
B: Tel: +32 2 347 0117 Fax: +32 2 347 1395  
IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61  
UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

**Contact:**

Customer Service  
NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710  
B: Tel: +32 2 347 0117 Fax: +32 2 347 1395  
IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61  
UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

**Abbreviations and acronyms:**

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

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*IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)**ICAO: International Civil Aviation Organisation**ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)**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**WELL: The highest acceptable concentration**IOELV: Indicative occupational exposure limit values**Flam. Liq. 2: Flammable liquids – Category 2**Met. Corr. 1: Corrosive to metals – Category 1**Acute Tox. 3: Acute toxicity - oral – Category 3**Acute Tox. 4: Acute toxicity - oral – 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**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1**Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2**Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3***\* Data compared to the previous version altered.**

GB

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### Annex: Exposure scenario

\* **Short title of the exposure scenario**

For the finished product.

CAP NALDEX

BACTOPLUS

KDS NR 21 Naldex

NALDEX

BIOTECT AV

**Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

**Product category PC35** Washing and cleaning products (including solvent based products)

**Description of the activities / processes covered in the Exposure Scenario** See section 1 of the annex to the Safety Data Sheet.

**Conditions of use**

**Duration and frequency** 5 workdays/week.

**Physical parameters**

**Physical state** Fluid

**Concentration of the substance in the mixture** The substance is main component.

**Used amount per time or activity** According to directions for use.

**Other operational conditions**

**Other operational conditions affecting environmental exposure**

No special measures required.

Use only on hard ground.

**Other operational conditions affecting worker exposure**

Avoid contact with eyes.

Avoid contact with the skin.

**Other operational conditions affecting consumer exposure** Keep out of the reach of children.

**Other operational conditions affecting consumer exposure during the use of the product** Not applicable.

**Risk management measures**

**Worker protection**

**Organisational protective measures** No special measures required.

**Technical protective measures**

Ensure that suitable extractors are available on processing machines

Use product only in enclosed systems.

**Personal protective measures**

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes.

Tightly sealed goggles

Protective gloves

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

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**Measures for consumer protection**

Ensure adequate labelling.

Keep locked up and out of the reach of children.

**Environmental protection measures**

**Water**

Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.

Do not allow to reach sewage system.

**Soil** Prevent contamination of soil.

**Disposal measures** Ensure that waste is collected and contained.

**Disposal procedures** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**Waste type** Partially emptied and uncleaned packaging

**Exposure estimation**

**Consumer** Not relevant for this Exposure Scenario.

**Guidance for downstream users** No further relevant information available.