

Safety data sheet
According to 1907/2006/EC, Article 31 REACH

Printing date 22.02.2018

Version: 4

Revision: 22.02.2018

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

· **1.1 Product identifier**

· **Trade name:** DK SAN

· **Article number:** 93070002

· **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.

· **Sector of Use**

SU21 Consumer uses: Private households / general public / consumers

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

· **Product category**

PC35 Washing and cleaning products (including solvent based products)

PC8 Biocidal products

· **Application of the substance / the mixture**

Alkaline cleaner/ detergent

Disinfectant

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

· **Manufacturer/Supplier:**

ZEP UK Ltd

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Widnes Cheshire, WA8 0RR

United Kingdom

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Fax: +44 (0)151 422 1011

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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:**

Customer Service

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

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SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

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

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

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Acute 1 H400 Very toxic to aquatic life.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

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

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Hazard pictograms



GHS05 GHS09

Signal word Danger

Hazard statements

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

Precautionary statements

P280 Wear protective gloves / eye protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 97043-91-9	Alcohols, C9-16, ethoxylated ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302	5-10%
CAS: 7173-51-5 EINECS: 230-525-2 Reg.nr.: 01-2119945987-15-xxxx	didecyldimethylammonium chloride ⚠ Acute Tox. 3, H301 ⚠ Skin Corr. 1B, H314 ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	5-10%
CAS: 102-71-6 EINECS: 203-049-8 Reg.nr.: 01-2119486482-31-xxxx	2,2',2''-nitrilotriethanol ⚠ Eye Irrit. 2, H319	2.5-5%
CAS: 64-02-8 EINECS: 200-573-9 Reg.nr.: 01-2119486762-27-xxxx	tetrasodium ethylenediaminetetraacetate ⚠ STOT RE 2, H373 ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	1-2.5%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	1-2.5%

Ingredients according to Detergents Regulation 648/2004/EC

For the wording of the listed hazard phrases refer to section 16.

Nonionic surfactants, DIDECYLDIMONIUM CHLORIDE	≥5 - <15%
EDTA and salts thereof, ISOPROPYL ALCOHOL	<5%

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation: In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

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

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- **After swallowing:** Drink plenty of water and provide fresh air. Call for 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:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **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** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **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.

8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

57-55-6 1,2-Propylene glycol (5-10%)

WEL (Great Britain) Long-term value: 474* 10** mg/m³, 150* ppm
*total vapour and particulates **particulates

67-63-0 propan-2-ol (1-2.5%)

WEL (Great Britain) Short-term value: 1250 mg/m³, 500 ppm
Long-term value: 999 mg/m³, 400 ppm

1310-73-2 sodium hydroxide (<0.1%)

WEL (Great Britain) Short-term value: 2 mg/m³

· DNELs

64-02-8 tetrasodium ethylenediaminetetraacetate

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

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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)
Inhalative	DNEL Long term-systemic mg/m ³	89 mg/m ³ (consumer) 500 mg/m ³ (worker)

· **PNECs****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

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.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.· **Protection of hands:**

Protective gloves

Rubber 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.

Rubber gloves

· **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 374 part III 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

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Fluid
Colour:	Colourless
Odour:	Odourless
Odour threshold:	Not determined.

· pH-value at 20 °C: 11

· Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	>80 °C

· Flash point: Not applicable.

· Flammability (solid, gas): Not applicable.

· Ignition temperature: 305 °C

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product does not present an explosion hazard.

· Explosion limits:

Lower:	2.6 Vol %
Upper:	12.6 Vol %

· Vapour pressure at 20 °C: 23 hPa

· Density at 20 °C: 1.03 g/cm³

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with water:

Insoluble.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

· Solvent content:

Organic solvents:	17,0 %
Swiss VOC:	1.08 %

Solids content: 2,0 %

· 9.2 Other information: 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.

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LD/LC50 values relevant for classification:**7173-51-5 didecyldimethylammonium chloride**

Oral	LD50	238 mg/kg (Rat) OECD Guideline 401
Dermal	LD50	3,342 mg/kg (Rabbit)
	LC50 / 96 h	1 mg/ltr (Oncorhynchus mykiss (Rainbow trout)) OECD guidance 203
	EC 50 / 48 h	0.19 mg/ltr (Pimephales promelas) 0.062 mg/ltr (Daphnia magna (water flea)) Method: US-EPA-FIFRA

64-02-8 tetrasodium ethylenediaminetetraacetate

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

67-63-0 propan-2-ol

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	6,290 mg/kg (rab)
Inhalative	LC50 / 4 h	46-73 mg/ltr (Rat)
	LC50/ 8 h	12,000-19,000 mg/m3 (Rat)
	LC50 / 96 h	9,640 mg/ltr (fish) >1,400 mg/ltr (Lepomus gobbosus (Zonnebaars)) 6,550 mg/ltr (Pimephales promelas)
	EC50 / 24 h	>1,000 mg/ltr (Daphnia magna (water flea))
	EC 50 / 48 h	2,285-13,299 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.

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

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

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.

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- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Danger to drinking water if even extremely small quantities leak into the ground.
In accordance with the requirements of the RVO in the Act on Detergents and Cleansing Agents, tensides are biodegradable up to at least 90 %.
Very toxic for aquatic organisms
- **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**
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.
- **Uncleaned packaging:**
- **Recommendation:** Disposal in accordance with administrative provisions

SECTION 14: Transport information

- | | |
|---|---|
| <ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA | UN2735 |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG · IATA | 2735 AMINES, LIQUID, CORROSIVE, N.O.S.
(didecyldimethylammonium chloride), ENVIRONMENTALLY HAZARDOUS

AMINES, LIQUID, CORROSIVE, N.O.S.
(didecyldimethylammonium chloride), MARINE POLLUTANT
AMINES, LIQUID, CORROSIVE, N.O.S.
(didecyldimethylammonium chloride) |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR | <div style="display: flex; align-items: center; gap: 10px;">   </div> |
| <ul style="list-style-type: none"> · Class · Label | 8 (C7) Corrosive substances.
8 |
| <ul style="list-style-type: none"> · IMDG | <div style="display: flex; align-items: center; gap: 10px;">   </div> |
| <ul style="list-style-type: none"> · Class · Label | 8 Corrosive substances.
8 |
| <ul style="list-style-type: none"> · IATA | <div style="display: flex; align-items: center; gap: 10px;">  </div> |
| <ul style="list-style-type: none"> · Class | 8 Corrosive substances. |

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· Label	8
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Segregation groups · Stowage Category · Segregation Code	Warning: Corrosive substances. 80 F-A,S-B Alkalis A SG35 Stow "separated from" acids.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category · Tunnel restriction code	3 E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (DIDECYLDIMETHYLAMMONIUM CHLORIDE), 8, III, 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)

· Directive 2012/18/EU

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
 · **Seveso category E1** Hazardous to the Aquatic Environment
 · **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:

· Technical instructions (air):

Class	Share in %
NK	10-25

· **Waterhazard class:** Water danger class 3 (Self-assessment): extremely hazardous for water.

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· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not 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.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H336 May cause drowsiness or dizziness.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

· **Department issuing SDS:**

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· **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
 Flam. Liq. 2: Flammable liquids – Category 2
 Acute Tox. 3: Acute toxicity – Category 3
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 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
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
 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

· *** Data compared to the previous version altered.**