



SAFETY DATA SHEET

DESTIX MK75

SDS according to Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II-EU

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

Date issued 04.09.2015

1.1. Product identifier

Product name DESTIX MK75
Specification No. L03000000163
Article no. DX3010, DX3020, DX3030

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

Product group Disinfectant.
Relevant identified uses SU21 Consumer uses: Private households (= general public = consumers)
SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen)
PC8 Biocidal Products (e.g. Disinfectants, pest control)
PC35 Washing and cleaning products (including solvent based products)
PROC10 Roller application or brushing
ERC11B Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing)
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Company name Kleinmann GmbH
Postal address Am Trieb 13
Postcode D-72820
City Sonnenbuehl
Country Germany
Tel +49(0)7128/9292-15
Fax +49(0)7128/9292-415
E-mail chemie@kleinmann.net
Website <http://www.kleinmann.net>
Enterprise no. DE 146 487

1.4. Emergency telephone number

Emergency telephone 8-12, Mo.-Fr.:+49(0)7128/9292-15

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] EUH 208;
EUH 210;
Additional information on classification The product is not classified.

2.2. Label elements

DSD/DPD labelling, comments No data recorded.
Composition on the label Didecyldimethylammonium chloride:24 g/kg

Hazard statements	EUH 208 Contains Methylisothiazolinone May produce an allergic reaction. EUH 210 Safety data sheet available on request.
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.

2.3. Other hazards

Health effect	The product contains a sensitising substance which may provoke an allergic reaction among sensitive individuals.
Environmental effects	Not Classified as PBT/vPvB by current EU criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Didecyldimethylammonium chloride	CAS no.: 7173-51-5 EC no.: 230-525-2 Index no.: 612-131-00-6	Acute tox. 4; H302 Skin Corr. 1B; H314	< 1 %
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chloride	CAS no.: 85409-23-0 EC no.: 287-090-7	C,N; R22,R34,R50 Acute tox. 4;H302; Skin Corr 1B;H314; Aquatic Acute 1;H400;	< 1 %
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	CAS no.: 68424-85-1 EC no.: 270-325-2	C; R34 Xn; R22 N; R50 Acute tox. 4;H302; Skin Corr 1B;H314; Aquatic Acute 1;H400; M-factor:10	< 1 %

Substance comments	. <1% preservative: 2-Methyl-4-isothiazolin-3-one , 3-Iodo-2-propynyl butylcarbamate The full text for all R-phrases are displayed in section 16.
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SECTION 4: First aid measures

4.1. Description of first aid measures

General	Remove affected person from source of contamination.
Inhalation	Fresh air. Get medical attention if any discomfort continues.
Skin contact	Rinse with water. Get medical attention if any discomfort continues.
Eye contact	Rinse with water. Contact physician if discomfort continues.
Ingestion	Rinse mouth with water. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

Delayed symptoms and effects	No known long term effects.
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4.3. Indication of any immediate medical attention and special treatment needed

Other Information	If unconscious: Call an ambulance/physician immediately. Show this Safety Data Sheet.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
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5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Follow the general fire precautions indicated by the workplace.
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5.3. Advice for firefighters

Personal protective equipment Wear necessary protective equipment. For personal protection, see section 8.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures Avoid contact with eyes and prolonged skin contact.

6.2. Environmental precautions

Environmental precautionary measures Avoid discharge into water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Cleaning method Recover the product and place in a suitable container for reuse. Flush contaminated area with plenty of water.

6.4. Reference to other sections

Other instructions See section 8 and section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling No specific usage precautions noted.

7.2. Conditions for safe storage, including any incompatibilities

Storage Store in closed original container in a dry place.

Conditions for safe storage

Storage Temperature Value: 0-35 °C

Storage Stabilit Durability: 24 months.

7.3. Specific end use(s)

Specific use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

Substance	Identification	Value	TWA Year
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	CAS no.: 68424-85-1 EC no.: 270-325-2		
Other Information about threshold limit values	Enthält keine Bestandteile mit arbeitsplatzbezogenen Grenzwerten.		

DNEL / PNEC

Summary of risk management measures, human Data lacking.

Summary of risk management measures, environment Data lacking.

8.2. Exposure controls

Limitation of exposure on workplace No special precautions.

Respiratory protection

Respiratory protection Respiratory protection not required.

Hand protection

Hand protection Gloves are recommended for prolonged use. Use protective gloves made of: Butyl rubber. Nitrile. Neoprene. (EN 374)

Breakthrough time Breakthrough time for nitrile rubber, neoprene and butyl rubber is approx. 3 hours.
The recommendation is a qualified estimate based on knowledge of the

components. Elastic gloves stretch when used as glove thickness and thus the breakthrough time reduced.

The EN 374-3 standard test is performed at 23°C, but the practical temperature of the glove is approx. 35°C.

The breakthrough time of the different glove guides, is therefor reduced by a factor 3.

Eye / face protection

Eye protection

Eye protection is not required under normal conditions.

Thermal hazards

Thermal hazards

No recommendation given.

Other Information

Other Information

No recommendation given.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Colourless liquid.
Colour	Colourless.
Odour	Odourless.
pH (as supplied)	Value: ~ 7,0
Comments, pH (aqueous solution)	Not relevant.
Comments, Melting point / melting range	Not relevant.
Comments, Boiling point / boiling range	Not relevant.
Flash point	Value: > 65 °C
Comments, Evaporation rate	Not relevant.
Comments, Explosion limit	Not relevant.
Comments, Vapour pressure	Not relevant.
Comments, Specific gravity	Not relevant.
Comments, Bulk density	Not relevant.
Solubility description	Completely soluble in water.
Comments, Partition coefficient: n-octanol / water	Not relevant.
Comments, Spontaneous combustability	Not relevant.
Comments, Decomposition temperature	Not relevant.
Comments, Viscosity	Not relevant.
Explosive properties	Not explosive.
Oxidising properties	Does not meet the criteria for oxidising.

9.2. Other information

Other physical and chemical properties

Comments No data recorded.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability

Stable under normal temperature conditions and recommended use. See section 10.1.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

No data recorded.

10.4. Conditions to avoid

Conditions to avoid No recommendation given.

10.5. Incompatible materials

Materials to avoid None specific.

10.6. Hazardous decomposition products

Hazardous decomposition products During fire, toxic gases (CO, CO₂, NO_x) are formed.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Toxicological Information:**

Other toxicological data Toxicological tests on the product has not been performed.

Toxicological data for substances

Substance No data available for ingredient(s).

LD50 oral Value: - -
Animal test species: -
Duration: -
Comments: -

Substance Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
LD50 dermal Value: ~ 3340 mg/kg
Animal test species: Rabbit

Respiratory or skin sensitisation Method of testing: OECD 406 Result: Not Sensitising.
Species: Guinea Pig.

Other information regarding health hazards

General No information about adverse effects due to exposure.

Potential acute effects

Inhalation No specific health warnings noted.
Skin contact May cause an allergic skin reaction.
Eye contact Prolonged contact may cause redness and/or tearing.
Ingestion Not likely, due to the packaging.

Symptoms of Exposure

Symptoms of overexposure No specific symptoms noted.

SECTION 12: Ecological information**12.1. Toxicity**

Aquatic, comments No data available for the product.

Toxicological data for substances

Substance No data available for ingredient(s).

Aquatic, comments -
Substance Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Acute aquatic, fish Value: 0,28 mg/l
Method of testing: LC50
Species: Pimephales promelas
Duration: 96h
Test reference: Supplier MSDS

Acute aquatic, algae Value: 0,049 mg/l
Method of testing: ErC50, OECD TG 201
Species: Selenastrum capricornutum
Duration: 72h
Test reference: Supplier MSDS

Acute aquatic, Daphnia Value: 0,016 mg/l
Method of testing: OECD TG 202

	Species: <i>Daphnia magna</i>
	Duration: 48h
	Test reference: Supplier MSDS
Ecotoxicity, other effects	Very toxic to aquatic organisms.
Mobility, description	Mobility, description: The product is water soluble and may spread in water systems.
Persistence and degradability	The product is easily biodegradable.
Biodegradability	Value: 95,5 Test period: 28d Method of testing: OECD 301 B
Bioaccumulation	Bioaccumulation: Is not expected to be bioaccumulable.
Bioconcentration factor (BCF)	Value: 79 Method of testing: <i>Lepomis macrochirus</i> , 35 d
Result of PBT assessment for the substance	Not Classified as PBT/vPvB by current EU criteria.

12.2. Persistence and degradability

Persistence and degradability	The product is easily biodegradable.
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12.3. Bioaccumulative potential

Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.
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12.4. Mobility in soil

Mobility	The product is water soluble and may spread in water systems.
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12.5. Results of PBT and vPvB assessment

PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.
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12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point. Dispose of waste and residues in accordance with local authority requirements.
Product classified as hazardous waste	No
Packaging classified as hazardous waste	No
EWC waste code	EWC: 0706 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
Other Information	Waste code applies to product remnants in pure form. When handling waste, consideration should be made to the safety precautions applying to handling of the product.

SECTION 14: Transport information

14.1. UN number

Comments	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
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14.2. UN proper shipping name

Comments	Not relevant.
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14.3. Transport hazard class(es)

Comments	Not relevant.
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14.4. Packing group

Comments	Not relevant.
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14.5. Environmental hazards

Comments Not relevant.

14.6. Special precautions for user

Special safety precautions for user No data recorded.

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

ADN - Other information

Other information No data recorded.

SECTION 15: Regulatory information

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

EEC-directive	Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents. Dangerous Preparations Directive 1999/45/EC. Dangerous Substance Directive 67/548/EEC.
Legislation and regulations	The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242). EH40/2005, Workplace exposure limits 2005, with amendments. The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. COMMISSION DIRECTIVE 2013/10/EU of 19 March 2013 amending Council Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers in order to adapt its labelling provisions to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents. REGULATION (EU) No 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 May 2012 concerning the making available on the market and use of biocidal products.

15.2. Chemical safety assessment

Chemical safety assessment performed No

SECTION 16: Other information

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	; EUH 208; ; EUH 210;
List of relevant R-phrases (under headings 2 and 3).	R50 Very toxic to aquatic organisms. R34 Causes burns. R22 Harmful if swallowed.
List of relevant H-phrases (Section 2 and 3).	H302 Harmful if swallowed. H400 Very toxic to aquatic life. H314 Causes severe skin burns and eye damage. EUH 210 Safety data sheet available on request. EUH 208 Contains May produce an allergic reaction.
Training advice	No particular training or education is required but the user must be familiar with this SDS.

Information which has been added, deleted or revised	New safety data sheet.
Version	1
Responsible for safety data sheet	Kleinmann GmbH
Prepared by	ANI