



SAFETY DATA SHEET

KLM036 DESTIX MedN lemon

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 11.08.2014

Revision date 08.02.2016

1.1. Product identifier

Product name DESTIX MedN lemon

Specification No. L03000000182 KLM036

Article no. DX1222 / DX2222 / DX2224 / DX1225

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

Product group Disinfectant.

Relevant identified uses SU20 Health services

SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen)

PC8 Biocidal Products (e.g. Disinfectants, pest control)

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

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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 Flam. Liq. 2; H225

Regulation (EC) No 1272/2008 Eye Irrit. 2; H319

[CLP/GHS]

2.2. Label elements

Hazard Pictograms (CLP)



Composition on the label	Ethanol:36 g, Propan-2-ol:9,5 g, / 100 g
Signal word	Danger
Hazard statements	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. EUH 208 Contains D-Limonene May produce an allergic reaction.
Precautionary statements	P102 Keep out of reach of children. P210 Keep away from heat / sparks / open flames / hot surfaces. – No smoking. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice / attention.

2.3. Other hazards

Description of hazard	The product is highly flammable and may be ignited even after short contact with an ignition source.
Health effect	In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Prolonged skin contact may cause redness, irritation and dry skin. Splashes in the eyes may cause redness and irritation.
Environmental effects	This product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Ethanol	CAS no.: 64-17-5 EC no.: 200-578-6 Index no.: 603-002-00-5	Flam. Liq. 2; H225	20 - 40 %
Propan-2-ol	CAS no.: 67-63-0 EC no.: 200-661-7 Index no.: 603-117-00-0 Registration number: 01-2119457558-25-XXXX Synonyms: Propan-2-ol	F; R11 Xi; R36 R67 Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	5 - 15 %
Substance comments	>30%: Disinfectant . <1% : perfume (D-Limonen) . The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.		

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.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.
Ingestion	Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Get medical attention if any discomfort continues.

Recommended personal protective equipment for first aid responders	Wear necessary protective equipment. For personal protection, see section 8.
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4.2. Most important symptoms and effects, both acute and delayed

Acute symptoms and effects	As described in section 2.2 and 2.3.
Delayed symptoms and effects	Inhalation of high vapour concentrations may cause symptoms such as mild irritation, headache, dizziness, fatigue, nausea and in serious cases unconsciousness.

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	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Improper extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures. Closed containers can burst violently when heated, due to excess pressure build-up. During fire, gases hazardous to health may be formed.
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5.3. Advice for firefighters

Personal protective equipment	Wear necessary protective equipment. For personal protection, see section 8.
Fire fighting procedures	Reference is made to the company fire procedure. If risk of water pollution occurs, notify appropriate authorities. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Containers close to fire should be removed immediately or cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Wear necessary protective equipment. For personal protection, see section 8. Do not smoke, use open fire or other sources of ignition.
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6.2. Environmental precautions

Environmental precautionary measures	Avoid discharge into water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.
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6.3. Methods and material for containment and cleaning up

Cleaning method	Absorb spillage with non-combustible, absorbent material. Wash contaminated area with water.
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6.4. Reference to other sections

Other instructions	See section 8 and section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Use work methods which minimize spreading of vapours, dust, smoke, aerosols, splashes etc. to the extent technically possible. Avoid inhalation of vapours/spray and contact with skin and eyes. Keep away from heat, sparks and open flame.
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7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in tightly closed original container in a well-ventilated place. Do not
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store near heat sources or expose to high temperatures.
 Other Information Follow rules for flammable liquids.

Conditions for safe storage

Storage Temperature **Value:** -5-25 °C.
 Storage Stability 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
Ethanol	CAS no.: 64-17-5	8-hour TWA: 1000 ppm	
	EC no.: 200-578-6	8-hour TWA: 1920 mg/m ³	
	Index no.: 603-002-00-5		
Propan-2-ol	CAS no.: 67-63-0	8-hour TWA: 400 ppm	2011
	EC no.: 200-661-7	8-hour TWA: 999 mg/m ³	
	Index no.: 603-117-00-0	15 min.: 500 ppm	
	Registration number: 01-2119457558-25-XXXX	15 min.: 1250 mg/m ³	
	Synonyms: Propan-2-ol		

DNEL / PNEC from substances

Substance	Propan-2-ol
DNEL	Group: Worker Exposure route: Dermal Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 888 mg/kg bw/day Remarks: ECHA
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 500 mg/m ³ Remarks: ECHA
DNEL	Group: Consumer Exposure route: Dermal Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 319 mg/kg bw/day Remarks: ECHA
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 89 mg/m ³ Remarks: ECHA
DNEL	Group: Consumer Exposure route: Oral Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 26 mg/kg bw/day Remarks: ECHA

PNEC	Exposure route: Freshwater sediments Value: 552 mg/kg
PNEC	Exposure route: Sewage treatment plant STP Value: 2251 mg/l
PNEC	Value: 140,9 Remarks: Intermittent releases
PNEC	Exposure route: Saltwater Value: 140,9 mg/l
PNEC	Exposure route: Soil Value: 25 mg/kg
PNEC	Exposure route: Freshwater Value: 140,9 mg/l
PNEC	Exposure route: Saltwater sediments Value: 552 mh/kg

8.2. Exposure controls

Recommended monitoring procedures	Not known.
Limitation of exposure on workplace	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Safety signs



Respiratory protection

Respiratory protection	If ventilation is insufficient, suitable respiratory protection must be provided. Use respiratory equipment with gas filter, type A2. (EN 141).
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Hand protection

Hand protection	Hand protection not required.
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Eye / face protection

Eye protection	Use safety goggles or face shield in case of splash risk. (EN 166).
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Skin protection

Skin protection (except hands)	No special precautions.
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Thermal hazards

Thermal hazards	See section 5.
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Appropriate environmental exposure control

Environmental exposure controls	See section 6.
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Other Information

Other Information	DO NOT SMOKE IN WORK AREA!
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Fluid.
Colour	Colourless.
Odour	Odour of alcohol.
pH (as supplied)	Value: ~ 8,0
Comments, pH (aqueous solution)	Not relevant.
Comments, Melting point / melting range	Not relevant.
Comments, Boiling point / boiling	Not relevant.

range

Flash point	Value: 28 °C
Comments, Evaporation rate	Not relevant.
Comments, Explosion limit	Not relevant.
Comments, Vapour pressure	Not relevant.
Comments, Vapour density	Not relevant.
Specific gravity	Value: ~ 0,90 kg/l.
Solubility description	Completely soluble in water.
Comments, Spontaneous combustability	Not relevant.
Comments, Decomposition temperature	Not relevant.
Comments, Viscosity	Not determined.
Explosive properties	Not explosive.
Oxidising properties	Does not meet the criteria for oxidising.

9.2. Other information

Content Of Voc **Value:** ~ 536 g/l

Other physical and chemical properties

Comments No data recorded.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions See section 10.4 and section 10.5.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid No information required.

10.6. Hazardous decomposition products

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

Other information

Other Information No data recorded.

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	Propan-2-ol
LD50 oral	Value: 5840 mg/kg Animal test species: rat Duration: single dose Test reference: OECD 401 Comments: ECHA
LD50 dermal	Value: 16,4 mL/kg Animal test species: rabbit

	Duration: 24h Test reference: OECD 402 Comments: ECHA
LC50 inhalation	Value: > 10000 ppm Animal test species: rat Duration: 6h Test reference: OECD 403 Comments: ECHA
Acute toxicity	Inhalation: Species: Rat. Result: Drowsiness, dizziness, disorientation, vertigo. Duration: -. Method of testing: OECD 426. ECHA
Serious eye damage / irritation	Species: Rabbit. Result: Irritation to eye. Duration: Single dose. Method of testing: OECD 405 . ECHA

Other information regarding health hazards

General No information about adverse effects due to exposure.

Potential acute effects

Inhalation	In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects. Aerosols irritate the respiratory system, and may cause coughing and difficulties in breathing.
Skin contact	Prolonged or repeated skin contact may cause cracked and dry skin.
Eye contact	Prolonged contact may cause redness and/or tearing.
Ingestion	Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhoea.

Symptoms of Exposure

Symptoms of overexposure High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic, comments No data available for the product.

Toxicological data for substances

Substance	Propan-2-ol
Acute aquatic, fish	Value: 8970-9280 mg/l Method of testing: LC50 Species: Leuciscus idus melanotus Duration: 48h
Acute aquatic, algae	Value: 1800 mg/l Method of testing: TGK Species: Scenedesmus quadricauda Duration: 8d
Acute aquatic, Daphnia	Value: 9715 mg/l Method of testing: LC50 Species: Daphnia magna Duration: 24h
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 % Test period: 21d Method of testing: OECD 301E
Bioaccumulation	The product is not bioaccumulating.
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 expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility Not regarded as dangerous for the environment. The product is miscible with water. May spread in water systems.

12.5. Results of PBT and vPvB assessment

PBT assessment results Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Environmental details, summation For this product no classification is required for environmental hazards.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Dispose of waste and residues in accordance with local authority requirements.
Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	Yes
EWC waste code	EWC: 0706 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
Other Information	When handling waste, consideration should be made to the safety precautions applying to handling of the product. Waste code applies to product remnants in pure form.

SECTION 14: Transport information

14.1. UN number

ADR / RID / ADN	1987
RID	1987
IMDG	1987
ICAO/IATA	1987

14.2. UN proper shipping name

Proper Shipping Name English	ETHANOL SOLUTION
ADR/RID/ADN	
ADR	ALCOHOLS, N.O.S. (Ethanol, 2-propanol)
RID	ALCOHOLS, N.O.S. (Ethanol, 2-propanol)
IMDG	ALCOHOLS, N.O.S. (Ethanol, 2-propanol)
ICAO/IATA	ALCOHOLS, N.O.S. (Ethanol, 2-propanol)

14.3. Transport hazard class(es)

ADR / RID / ADN	3
RID	3
IMDG	3
ICAO/IATA	3

14.4. Packing group

ADR	II
RID	II
IMDG	II
ICAO/IATA	II

14.5. Environmental hazards

IMDG Marine pollutant	No
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14.6. Special precautions for user

EmS F-E, S-D

Special safety precautions for user Not relevant.

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

Additional information. Not relevant.

ADR / RID - Other information

Hazard no. 33

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

Other Label Information	Restricted to professional users. As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.
Biocides	Yes
Legislation and regulations	The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242). 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. The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895). The Cosmetic Products (Safety) Regulations 2003 (S.I 2003 No. 835). REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. 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]	Flam. Liq. 2; H225; Eye Irrit. 2; H319;
List of relevant R-phrases (under headings 2 and 3).	R36 Irritating to eyes. R11 Highly flammable. R67 Vapours may cause drowsiness and dizziness.
List of relevant H-phrases (Section 2 and 3).	H336 May cause drowsiness or dizziness. H225 Highly flammable liquid and vapour.

Training advice	H319 Causes serious eye irritation. No particular training or education is required but the user must be familiar with this SDS. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.
Information which has been added, deleted or revised	Change to Sections: 1, 2, 3, 4, 7, 8, 9, 11, 14, 15, 16
Version	2
Responsible for safety data sheet	Kleinmann GmbH
Prepared by	ALM