

# SAFETY DATA SHEET KLM017 DESTIX MedN fluid

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 03.02.2015

1.1. Product identifier

Product name KLM017 DESTIX MedN fluid

Article no. L03000000159

Brand DESTIX MedN DX3210, DX3220, DX3230

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

Product group Disinfectant.

Relevant identified uses SU20 Health services

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)

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 Flam. Liq. 3;H226; Regulation (EC) No 1272/2008 Eye Irrit. 2;H319;

[CLP/GHS]

#### 2.2. Label elements

# Hazard Pictograms (CLP)





Composition on the label Ethanol:40 g, Propan-2-ol:9,5 g, Butan-1-ol:2 g, / 100 g

Signal word Warning

Hazard statements H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

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. P280 Wear protective gloves/protective clothing/eye protection/face protection. 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 or doctor/physician.

2.3. Other hazards

Description of hazard The product is flammable, and heating may generate vapours which may

form explosive vapour/air mixtures. Irritating to eyes.

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 Synonyms: Ethanol	Flam. Liq. 2; H225	30 - 50 %
Propan-2-ol	CAS no.: 67-63-0 EC no.: 200-661-7 Index no.: 603-117-00-0 Synonyms: Propan-2-ol	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	5 - 10 %
Butan-1-ol	CAS no.: 71-36-3 EC no.: 200-751-6 Index no.: 603-004-00-6 Synonyms: Butan-1-ol	Flam. Liq. 3; H226 Acute tox. 4; H302 STOT SE 3; H335 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336	1 - 5 %
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-C8-18-alkyldimethyl, chlorides	CAS no.: 63449-41-2 EC no.: 264-151-6 Index no.: 612-140-00-5	Acute tox. 4; H312 Acute tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400	< 1 %
Substance comments	>30%: Disinfectant <5%: cationic surfactants		

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 Important! Immediately rinse with water for at least 15 minutes. May cause

permanent damage if eye is not immediately irrigated. Make sure to remove any contact lenses from the eyes before rinsing. Immediately transport to hospital or eye specialist. Continue flushing during transport to hospital. 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

Ingestion

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

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

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 In case of unconsciousness or eye contact: Immediately call a doctor /

ambulance. Show this safety data sheet.

# **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.

# 5.3. Advice for firefighters

Personal protective equipment

Fire fighting procedures

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

#### 6.2. Environmental precautions

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

measures authorities in case of spillage to drain/aquatic environment.

#### 6.3. Methods and material for containment and cleaning up

Cleaning method Absorb spillage with non-combustible, absorbent material. Wash contaminated

area with water.

#### 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 Avoid inhalation of vapours/spray and contact with skin and eyes. Keep away

from heat, sparks and open flame.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage Store in tightly closed original container in a well-ventilated place. Do not

store near heat sources or expose to high temperatures.

Other Information Follow rules for flammable liquids. Lagerklasse: 3A

#### Conditions for safe storage

Storage Temperature Value: -5-25 °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
Ethanol	CAS no.: 64-17-5 EC no.: 200-578-6 Index no.: 603-002-00-5 Synonyms: Ethanol	8-hour TWA: 1000 ppm 8-hour TWA: 1920 mg/m3	2011
Propan-2-ol	CAS no.: 67-63-0 EC no.: 200-661-7 Index no.: 603-117-00-0 Synonyms: Propan-2-ol	8-hour TWA: 400 ppm 8-hour TWA: 999 mg/m3 15 min.: 500 ppm 15 min.: 1250 mg/m3	2011
Butan-1-ol	CAS no.: 71-36-3 EC no.: 200-751-6 Index no.: 603-004-00-6 Synonyms: Butan-1-ol	15 min.: 50 ppm 15 min.: 154 mg/m3	2011

#### **DNEL / PNEC**

Summary of risk management

measures, human

Data lacking.

Summary of risk management measures, environment

Data lacking.

#### 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, use a respirator with type A (EN 141) gas filter.

#### Hand protection

Hand protection Chemical resistant gloves required for prolonged or repeated contact.

Eye / face protection

Eye protection Wear approved chemical safety goggles where eye exposure is reasonably

probable.

Skin protection

Skin protection (except hands)

No special precautions.

Thermal hazards

Thermal hazards See section 5.

Appropriate environmental exposure control

Environmental exposure controls See section 6.

Other Information

Other Information DO NOT SMOKE IN WORK AREA!

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

#### 9.1. Information on basic physical and chemical properties

Physical state Fluid.

Colour Colourless.

Odour Odour of alcohol.

Comments, Odour limit No data recorded.

pH (as supplied) Value: ~ 8,0

Comments, pH (aqueous solution) Not relevant.

Comments, Melting point / melting Not relevant.

range

Comments, Boiling point / boiling

range

No data recorded.

Flash point Value: 24 °C
Comments, Evaporation rate No data recorded.
Flammability (solid, gas) No data recorded.
Comments, Explosion limit No data recorded.
Comments, Vapour pressure No data recorded.
Comments, Vapour density No data recorded.
Specific gravity Value: ~ 0,9 kg/l.

Solubility description Completely soluble in water.

Comments, Partition coefficient: n-

octanol / water

No data recorded.

Comments, Spontaneous

combustability

No data recorded.

Comments, Viscosity Not relevant. Explosive properties Not explosive.

Oxidising properties Does not meet the criteria for oxidising.

# 9.2. Other information

#### Physical hazards

Comments, Permeation rate

Comments, Pour point

Comments, Particle size

Comments, Critical pressure

Comments, Expansion coefficient

Comments, Redox potential

Comments, Radical formation

Not relevant.

Not relevant.

Not relevant.

potential

Comments, Photocatalytic properties Not relevant.

#### 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

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

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 No data available for ingredient(s).

LD50 oral Value: - -

Animal test species: -

Duration: -Comments: -

Other information regarding health hazards

General No information about adverse effects due to exposure.

Potential acute effects

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. Prolonged or repeated skin contact may cause cracked and dry skin.

Skin contact Prolonged or repeated skin contact may cause cracked and dry skin.

Eye contact May cause permanent damage to eyes, especially if the product is not

washed away IMMEDIATELY.

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 No data available for ingredient(s).

Aquatic, comments -

#### 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

Other adverse effects / Remarks

Water hazard classification 1

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.

Yes

Yes

Product classified as hazardous

waste

Packaging classified as hazardous

waste

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 1987 RID 1987 IMDG 1987 ICAO/IATA 1987

# 14.2. UN proper shipping name

ADR ALCOHOLS, N.O.S. RID ALCOHOLS, N.O.S. IMDG ALCOHOLS, N.O.S. ICAO/IATA ALCOHOLS, N.O.S.

#### 14.3. Transport hazard class(es)

 ADR
 3

 Hazard no.
 33

 RID
 3

 IMDG
 3

 ICAO/IATA
 3

#### 14.4. Packing group

ADR II
RID II
IMDG II
ICAO/IATA II

#### 14.5. Environmental hazards

#### 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.

# **SECTION 15: Regulatory information**

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

**EEC-directive** 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). 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).

## 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. Lig. 3; H226; Eve Irrit. 2: H319:

List of relevant R-phrases (under

headings 2 and 3).

R34 Causes burns.

R50 Very toxic to aquatic organisms.

R22 Harmful if swallowed.

List of relevant H-phrases (Section

2 and 3).

H318 Causes Serious eye damage.

H302 Harmful if swallowed.

H226 Flammable liquid and vapour. H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life. H315 Causes skin irritation.

H335 May cause respiratory irritation.

H314 Causes severe skin burns and eye damage.

H312 Harmful in contact with skin.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

Training advice 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

New safety data sheet.

Version 2

Responsible for safety data sheet

Kleinmann GmbH