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Version 03.00

Revision Date 30.06.2015

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name : mucasol®

1.2 Relevant identified uses of the substance or mixture and uses advised againstUse of the Sub-
stance/Mixture : Cleaning agentRecommended restrictions
on use : Restricted to professional users.**1.3 Details of the supplier of the safety data sheet**Producer/Supplier : Schülke & Mayr GmbH
Robert-Koch-Str. 2
22851 Norderstedt
Germany
Telephone: +4940521000
Telefax: +494052100318
mail@schuelke.com
www.schuelke.comContact person : Application Department HI
+49 (0)40/ 521 00 544
ADHI@schuelke.com
(Schülke & Mayr UK Ltd.: +44-1142543500)**1.4 Emergency telephone number**Emergency telephone num-
ber : UK Poisons Emergency number: 0870 600 6266Emergency telephone num-
ber : +49 (0)40 / 52 100 -0**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.

Classification (67/548/EEC, 1999/45/EC)

Irritant R36/38: Irritating to eyes and skin.

2.2 Label elements**|| Labelling (REGULATION (EC) No 1272/2008)**

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according to Regulation (EC) No. 1907/2006

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Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H315 Causes skin irritation. H318 Causes serious eye damage.
Precautionary statements	:	P280 Wear protective gloves/ eye protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. P337+P313 If eye irritation persists: Get medical advice/ attention.

Special labelling of certain mixtures : Labelling according to Regulation (EC) No. 648/2004: (>30% Phosphates, < 5% anionic surfactants, < 5% amphoteric surfactants, < 5% EDTA and salts thereof.)

2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). No special risks known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Solution of the following substances with harmless additives.

Hazardous components

Chemical Name	Index-Number CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Potassium Phosphate Tribasic Trihydrate	22763-03-7	Xi; R36/38	Skin Irrit. 2; H315 Eye Irrit. 2; H319	<= 25 %
Tetrapotassium pyro- phosphate	7320-34-5 230-785-7	Xi; R36	Eye Irrit. 2; H319	<= 10 %
Orthophosphoric acid	7664-38-2 231-633-2	C; R34	Skin Corr. 1B; H314 Met. Corr. 1; H290	<= 3 %

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures**4.1 Description of first aid measures**

- General advice : Take off all contaminated clothing immediately.
- If inhaled : Move to fresh air. If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with plenty of water. Consult a doctor if skin irritation persists.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.
Treat symptomatically.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- Suitable extinguishing media : Carbon dioxide (CO₂), Foam, Dry powder, Water spray jet
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : No information available.
- Specific risk from the substance or the product itself, its combustion products or evolved gases : Fire may cause evolution of: Carbon monoxide, Carbon dioxide (CO₂), Nitrogen oxides (NO_x)

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

- Personal precautions : Increased risk of slipping in the presence of leaked / spilled product. Use personal protective equipment.

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6.2 Environmental precautions

Environmental precautions : Avoid subsoil penetration.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

see Section 8 + 13

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : Avoid contact with skin and eyes.
Advice on protection against fire and explosion : No special protective measures against fire required.
Hygiene measures : Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store at room temperature in the original container.
Do not store at temperatures above 30°C.

Further information on storage conditions : Keep away from heat. Keep away from direct sunlight. Keep container tightly closed.

|| Advice on common storage : No materials to be especially mentioned.

7.3 Specific end use(s)

Specific use(s) : none

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Orthophosphoric acid	7664-38-2	Permissible exposure limit	1 mg/m ³	EC/2000/39
Orthophosphoric acid	7664-38-2	Short term exposure limit	2 mg/m ³	EC/2000/39

8.2 Exposure controls**Personal protective equipment**

Eye protection : Tightly fitting safety goggles

Hand protection : Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0,11 mm) made by KCL or gloves from other manufacturers offering the same protection. Pro-

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longed contact: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protection.

Protective measures : Avoid contact with skin and eyes.

Environmental exposure controls

General advice : Avoid subsoil penetration.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: green
Odour	: characteristic
Odour Threshold	: not determined
Flash point	: Not applicable
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Flammability	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: No data available
pH	: 12,0 - 12,5, 20 °C, concentrate
Melting point/freezing point	: < 0 °C
Decomposition temperature	: No data available
Boiling point/boiling range	: > 100 °C,
Vapour pressure	: Not applicable,
Relative vapour density	: Not applicable
Density	: 1,40 g/cm ³ , 20 °C
Water solubility	: completely miscible, 20 °C
Viscosity, dynamic	: No data available
Evaporation rate	: Not applicable

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

reaction with acids

10.4 Conditions to avoid

Protect from frost, heat and sunlight.

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10.5 Incompatible materials

Possible incompatibility with alkali sensitive materials.

10.6 Hazardous decomposition products

None reasonably foreseeable.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Product**

Acute oral toxicity	: Acute toxicity estimate: > 10000 mg/kg, Estimation of acute oral toxicity, in accordance with the calculation methode presented in the GHS (Globally Harmonized System), Part 3, Chapter 3.1)
Acute inhalation toxicity	: Acute toxicity estimate: > 50 mg/l, in accordance with the calculation methode presented in the GHS (Globally Harmonized System), Part 3, Chapter 3.1)
Acute dermal toxicity	: Acute toxicity estimate: > 15000 mg/kg, in accordance with the calculation methode presented in the GHS (Globally Harmonized System), Part 3, Chapter 3.1)

Skin corrosion/irritation**Product**

|| Causes skin irritation., Calculation method

Serious eye damage/eye irritation**Product**

|| Causes serious eye damage., Calculation method

Respiratory or skin sensitisation**Components:****Potassium Phosphate Tribasic Trihydrate:**

No data available

Tetrapotassium pyrophosphate:

According to experience not expected

|| **Orthophosphoric acid:**

|| Does not cause skin sensitisation. largely based on human evidence

Germ cell mutagenicity**Components:****Potassium Phosphate Tribasic Trihydrate:**

Genotoxicity in vitro : No data available

Tetrapotassium pyrophosphate:Germ cell mutagenicity- As- : No data available
sessment|| **Orthophosphoric acid:**|| Germ cell mutagenicity- As- : No data available
sessment**Carcinogenicity****Components:****Potassium Phosphate Tribasic Trihydrate:**

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This information is not available.

Tetrapotassium pyrophosphate:

Carcinogenicity - Assessment : No data available

Orthophosphoric acid:

Carcinogenicity - Assessment : No data available

Reproductive toxicity

Components:

Potassium Phosphate Tribasic Trihydrate:

Effects on fertility : This information is not available.

Effects on foetal development : This information is not available.

Tetrapotassium pyrophosphate:

Reproductive toxicity - Assessment : No data available

Teratogenicity - Assessment : No data available

Orthophosphoric acid:

Effects on fertility : Rat, Oral, NOAEL: F1: ≥ 500 mg/kg

Reproductive toxicity - Assessment : No data available

Teratogenicity - Assessment : No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information

Product

There is no data available for this product.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Potassium Phosphate Tribasic Trihydrate:

Toxicity to fish : LC0 (Leuciscus idus (Golden orfe)): ca. 900 mg/l, 48 h, OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

Tetrapotassium pyrophosphate:

Toxicity to fish : LC0 (Leuciscus idus (Golden orfe)): 750 mg/l, 48 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l, 48 h

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Toxicity to algae : EC50: > 100 mg/l, 72 h

Orthophosphoric acid:

Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): 138 mg/l, 96 h

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

12.2 Persistence and degradability**Components:****Potassium Phosphate Tribasic Trihydrate:**

Biodegradability : No data available

Tetrapotassium pyrophosphate:

Biodegradability : inorganic

Orthophosphoric acid:

Biodegradability : The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential**Components:****Potassium Phosphate Tribasic Trihydrate:**

Bioaccumulation : No data available

Tetrapotassium pyrophosphate:

Bioaccumulation : No data available

Orthophosphoric acid:

Bioaccumulation : No data available

12.4 Mobility in soil**Components:****Potassium Phosphate Tribasic Trihydrate:**

Mobility : No data available

Tetrapotassium pyrophosphate:

Mobility : No data available

Orthophosphoric acid:

Mobility : No data available

12.5 Results of PBT and vPvB assessment**Product**

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

12.6 Other adverse effects**Product**

Additional ecological information : none

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Product : Dispose of the product according to the defined EWC (European Waste Code) No.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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Waste key for the unused product : European waste catalog (EWC) 070601
Waste key for the unused product(Group) : Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

For personal protection see section 8.

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Legislation on the control of major-accident hazards involving dangerous substances : Directive 96/82/EC does not apply

Volatile organic compounds : none, Directive 2010/75/EC on the limitation of emissions of volatile organic compounds

Other regulations : The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

15.2 Chemical Safety Assessment

Exempt

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SECTION 16: Other information**Full text of R-Phrases**

R34 : Causes burns.
R36 : Irritating to eyes.
R36/38 : Irritating to eyes and skin.

Full text of H-Statements

H290 : May be corrosive to metals.
H314 : Causes severe skin burns and eye damage.
H315 : Causes skin irritation.
H319 : Causes serious eye irritation.

Full text of other abbreviations

Eye Irrit.	Eye irritation
Met. Corr.	Corrosive to metals
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation

Further information

Changes compared with the previous edition!!!

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.