

**mucasol®** No Change Service!

Version 02.00

Revision Date 30.01.2014

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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 against**Use 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  
pab@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 (67/548/EEC, 1999/45/EC)**

Irritant R36/38: Irritating to eyes and skin.

**2.2 Label elements****Labelling according to EC Directives (1999/45/EC):**

Hazard symbols :



Irritant

R-phrase(s) : R36/38 Irritating to eyes and skin.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**schülke** -†

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S-phrase(s) : S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37 Wear suitable gloves.

Further information : In the EU, this product falls under the Directive medical devices 93/42/EEC.

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 nor toxic (PBT).

## 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 [%]
Trikaliumphosphat	22763-03-7	Xi; R36/38	Skin Irrit. 2; H315 Eye Irrit. 2; H319	<= 25 %
Tetrapotassium pyrophosphate	7320-34-5 230-785-7	Xi; R36	Eye Irrit. 2; H319	<= 10 %
pentapotassium triphosphate	13845-36-8 237-574-9 01- 2119485639- 19-XXXX	Xi; R36/38	Met. Corr. 1; H290 Skin Irrit. 2; H315 Eye Irrit. 2; H319	<= 7,5 %

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 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.

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- 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 (CO<sub>2</sub>), 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 (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>)

**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.

**6.2 Environmental precautions**

- Environmental precautions             : Avoid subsoil penetration.

**6.3 Methods and materials for containment and cleaning up**

- Methods for cleaning up                 : Wipe up with absorbent material (e.g. cloth, fleece).

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Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

#### 6.4 Reference to other sections

See chapter 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 : Keep away from food and drink.

#### 7.3 Specific end use(s)

Specific use(s) : none

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

none

#### 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. Prolonged contact: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject

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(>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
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 °Cconcentrate
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 <sup>3</sup> , 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.

**10.5 Incompatible materials**

Possible incompatibility with alkali sensitive materials.

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**10.6 Hazardous decomposition products**

None reasonably foreseeable.

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

Acute oral toxicity : no data available  
Acute inhalation toxicity : Mucous membranes, Symptoms: Local irritation  
Acute dermal toxicity : no data available

**Tetrapotassium pyrophosphate:**

Acute oral toxicity : LD50: > 2000 mg/kg, mouse  
Acute inhalation toxicity : > 1,1 mg/l, rat, OECD Test Guideline 403, no data available  
Acute dermal toxicity : LD50: 2000 mg/kg, rabbit, OECD Test Guideline 402, no data available

**pentapotassium triphosphate:**

Acute oral toxicity : LD50: > 2000 mg/kg  
Acute inhalation toxicity : no data available  
Acute dermal toxicity : no data available

**Skin corrosion/irritation****Product**

Irritating to skin.

**Serious eye damage/eye irritation****Product**

Irritating to eyes.

**Respiratory or skin sensitisation****Components:****Trikaliumphosphat:**

no data available

**Tetrapotassium pyrophosphate:**

According to experience not expected

**pentapotassium triphosphate:**

According to experience not expected

**Germ cell mutagenicity****Components:****Trikaliumphosphat:**

Genotoxicity in vitro : no data available

**Tetrapotassium pyrophosphate:**Germ cell mutagenicity- As- : no data available  
sessment**pentapotassium triphosphate:**Germ cell mutagenicity- As- : not mutagenic  
sessment**Carcinogenicity****Components:**

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**Trikaliumphosphat:**

This information is not available.

**Tetrapotassium pyrophosphate:**

Carcinogenicity - Assessment : no data available

**pentapotassium triphosphate:**

Carcinogenicity - Assessment : Did not show carcinogenic or teratogenic effects in animal experiments.

**Reproductive toxicity****Components:****Trikaliumphosphat:**

This information is not available.

**Tetrapotassium pyrophosphate:**

Reproductive toxicity - Assessment : no data available

**pentapotassium triphosphate:**

Reproductive toxicity - Assessment : No toxicity to reproduction

**Teratogenicity****Components:****Trikaliumphosphat:**

This information is not available.

**Tetrapotassium pyrophosphate:**

Teratogenicity - Assessment : no data available

**pentapotassium triphosphate:**

Teratogenicity - Assessment : No toxicity to reproduction

**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. The classification was made according to the calculation procedure of the Preparations Directive.

**SECTION 12: Ecological information****12.1 Toxicity****Components:****Trikaliumphosphat :**

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

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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)): &gt; 100 mg/l, 48 h

Toxicity to algae : EC50: &gt; 100 mg/l, 72 h

**pentapotassium triphosphate :**

Toxicity to fish : LC0 (Leuciscus idus (Golden orfe)): ca. 800 mg/l, 48 h

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

**12.2 Persistence and degradability****Components:****Trikaliumphosphat :**

Biodegradability : no data available

**Tetrapotassium pyrophosphate :**

Biodegradability : inorganic

**pentapotassium triphosphate :**

Biodegradability : inorganic

**12.3 Bioaccumulative potential****Components:****Trikaliumphosphat :**

Bioaccumulation : no data available

**Tetrapotassium pyrophosphate :**

Bioaccumulation : no data available

**pentapotassium triphosphate :**

Bioaccumulation : Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

**12.4 Mobility in soil****Components:****Trikaliumphosphat :**

Mobility : no data available

**Tetrapotassium pyrophosphate :**

Mobility : no data available

**pentapotassium triphosphate :**

Mobility : Not expected to adsorb on soil.

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

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

**12.6 Other adverse effects****Product**

Additional ecological information : none



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**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.
- 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****ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.2 Proper shipping name****ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.3 Transport hazard class****ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.4 Packing group****ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.5 Environmental hazards****ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

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**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**

Exempt

**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 1999/13/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

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

- R36                                    Irritating to eyes.  
R36/38                                Irritating to eyes and skin.

**Full text of H-Statements**

- H290                                    May be corrosive to metals.  
H315                                    Causes skin irritation.  
H319                                    Causes serious eye irritation.

**Full text of other abbreviations**

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

**Further information**

|| Changes compared with the previous edition!!!

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