

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MILIFIX Ultra

Revision date: 02.05.2018

Product code: 70385_CLP

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

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

Cleaning agent, acidic
Reserved for industrial and professional use.

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name:	DR.SCHNELL GmbH & Co. KGaA	
Street:	Taunusstraße 19	
Place:	D-80807 München	
Telephone:	+49/89/350608-0	Telefax: +49/89/350608-47
e-mail:	info@dr-schnell.de	
Contact person:	Josef Feuerstein	Telephone: +49/89/350608-46
e-mail:	sdb@dr-schnell.de	
Internet:	www.dr-schnell.de	
Responsible Department:	Labor	

1.4. Emergency telephone number:

Emergency CONTACT (24-Hour-Number) international:
GBK GmbH +49 (0) 61 32 - 8 44 63

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:
Skin corrosion/irritation: Skin Corr. 1
Serious eye damage/eye irritation: Eye Dam. 1
Hazard Statements:
Causes severe skin burns and eye damage.
Causes serious eye damage.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

phosphoric acid, orthophosphoric acid
isotridecanol, ethoxylated
Sulfonic acids, C14-17-sec-alkane, sodium salts

Signal word: Danger**Pictograms:****Hazard statements**

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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/doctor.

2.3. Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Low pH-value can be harmful to water.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
7664-38-2	phosphoric acid, orthophosphoric acid	35 - < 40 %
	231-633-2	015-011-00-6
	01-2119485924-24	
	Met. Corr. 1, Skin Corr. 1B; H290 H314	
69011-36-5	isotridecanol, ethoxylated	1 - < 5 %
	931-138-8	
	Acute Tox. 4, Eye Dam. 1; H302 H318	
5131-66-8	3-butoxypropan-2-ol	1 - < 5 %
	225-878-4	01-2119475527-28
	Skin Irrit. 2, Eye Irrit. 2; H315 H319	
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts	1 - < 5 %
	307-055-2	01-2119489924-20
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H302 H315 H318 H412	

Full text of H and EUH statements: see section 16.

Labelling for contents according to Regulation (EC) No 648/2004

>= 30 % phosphates, < 5 % non-ionic surfactants, < 5 % phosphonates, < 5 % anionic surfactants, perfumes

(Citronellol, Benzyl salicylate).

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air.

In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

Remove contact lenses, if present and easy to do. Continue rinsing.

In all cases of doubt, or when symptoms persist, seek medical advice.

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After ingestion

Rinse mouth immediately and drink plenty of water.
Call a physician immediately. To be accompanied by MSDS.

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

If applicable, delayed symptoms and effects can be found in section 11. , i.e. under section 4.1 for absorption methods.

4.3. Indication of any immediate medical attention and special treatment needed

No special measures are necessary.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO₂). / Dry extinguishing powder.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products
Gas/vapours, corrosive.
Gas/vapours, harmful.
Decomposition compounds

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.
Acid-resistant protection clothing (EN 13034)

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Dispose of waste according to applicable legislation.

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

Provide adequate ventilation.
Avoid contact with eyes and skin.
If necessary Caution, slippery

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal .
Neutralisation possible by an expert.
Suitable material for diluting or neutralizing: weak alkalis
Can be diluted with water
Flush residue with plenty of water.

6.4. Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

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

In addition to the information contained in this section, relevant information can also be found in sections 8 and 6.1.

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Further information on handling

- Observe instructions for use.
- Notice the directions for use on the label.
- Working methods should be applied according to operating instructions.
- General hygiene measures for the handling of chemicals are applicable.
- Wash hands before breaks and after work.
- Keep away from food, drink and animal feedingstuffs.
- Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

- Store separately from alkalis.
- Store product closed and only in original packing.
- Only use tested (UN tested) containers.
- Do not use acid sensitive materials.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

8.2. Exposure controls**Appropriate engineering controls**

- Provide adequate ventilation.
- This can be achieved by local exhaust ventilation or general ventilation.
- When exceeding the occupational exposure limit (OEL):
- Use appropriate respiratory protection.
- Applies only if maximum permissible exposure values are listed here.

Protective and hygiene measures

- General hygiene measures for the handling of chemicals are applicable.
- Wash hands before breaks and after work.
- Keep away from food, drink and animal feedingstuffs.
- Contaminated work clothing should not be allowed out of the workplace.

Eye/face protection

Tightly sealed safety glasses. (EN 166)

Hand protection

Protective gloves made of natural latex (EN 374), Permeation time (penetration time) in minutes: 480
 Protective gloves of nitrile (EN 374), Permeation time (penetration time) in minutes: 480
 Recommendation: Manufacturer: KCL GmbH, D-36124 Eichenzell, E-mail: vertrieb@kcl.de
 Specification No.: 706 Lapren, 730 Camatril Velours

No tests have been carried out.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Acid-resistant protection clothing (EN 13034)

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Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.
When exceeding the occupational exposure limit (OEL): Filter A (EN 14387), brown

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	red
Odour:	characteristic
pH-Value:	0,1

Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	not determined
Flash point:	> 100 °C

Flammability

Solid:	not determined
Gas:	not determined

Explosive properties

not determined

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	not determined

Auto-ignition temperature

Solid:	not determined
Gas:	not determined

Oxidizing properties

not determined

Vapour pressure:	not determined
Vapour pressure:	not determined
Density:	1,2 g/cm ³
Bulk density:	not determined
Water solubility:	miscible.

Solubility in other solvents

not determined

Partition coefficient:	not determined
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Vapour density:	not determined
Solvent content:	not determined

9.2. Other information

Mixability: not determined
Fat solubility (g/l): not determined
Conductivity: not determined
Surface tension: not determined

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SECTION 10: Stability and reactivity

10.1. Reactivity

See also Subsection 10.4 to 10.6.

The product has not been tested.

10.2. Chemical stability

See also Subsection 10.4 to 10.6.

10.3. Possibility of hazardous reactions

See also Subsection 10.4 to 10.6.

10.4. Conditions to avoid

See also section 7.

Heat, open flames, ignition sources

10.5. Incompatible materials

See also section 7.

Contact with strong alkalis leads to strong exothermic reaction.

Avoid contact with acid sensitive materials.

Metals, Nitrates, Chlorates, CaC₂, Calcium carbonate

10.6. Hazardous decomposition products

See also Subsection 10.4 to 10.6.

Also refer to section 5.3.

Hydrogen gas

Formation of: Gas/vapours, corrosive.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

Possibly more information on health effects, see Section 2.1 (classification).

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7664-38-2	phosphoric acid, orthophosphoric acid				
	oral	LD50 1530 mg/kg	Rat		
	dermal	LD50 2740 mg/kg	Rabbit		
69011-36-5	isotridecanol, ethoxylated				
	oral	LD50 >300-2000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rabbit		
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts				
	oral	LD50 >2000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Mouse.		

Irritation and corrosivity

Causes severe skin burns and eye damage.

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Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

See section 2.1 (rating) for potentially additional information concerning environmental effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
7664-38-2	phosphoric acid, orthophosphoric acid					
	Acute fish toxicity	LC50 mg/l	3-3,25	96 h	Lepomis macrochirus	
	Acute algae toxicity	ErC50 mg/l	>100	72 h	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna	
69011-36-5	isotridecanol, ethoxylated					
	Acute fish toxicity	LC50 mg/l	>1-10	96 h	Cyprinus carpio (Common Carp)	
	Acute algae toxicity	ErC50 mg/l	>1-10	72 h	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50 mg/l	>1-10	48 h	Daphnia magna	
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts					
	Acute fish toxicity	LC50 mg/l	1-10	96 h	Brachydanio rerio (zebra-fish)	
	Acute algae toxicity	ErC50	>61 mg/l	72 h	Scenedesmus subspicatus	
	Acute crustacea toxicity	EC50 mg/l	9,81	48 h	Daphnia magna	

12.2. Persistence and degradability

The surfactant contained in this mixture complies 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.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

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SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Dispose of waste according to applicable legislation.

Neutralisation possible by an expert.

For example: designated incinerator

Waste disposal number of waste from residues/unused products

060104 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of acids; phosphoric and phosphorous acid; hazardous waste

Contaminated packaging

Dispose of waste according to applicable legislation.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number:	UN 1805
14.2. UN proper shipping name:	PHOSPHORIC ACID SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Classification code:	C1
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

Inland waterways transport (ADN)

14.1. UN number:	UN 1805
14.2. UN proper shipping name:	PHOSPHORIC ACID SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Classification code:	C1
Limited quantity:	5 L
Excepted quantity:	E1

Marine transport (IMDG)

14.1. UN number:	UN 1805
14.2. UN proper shipping name:	PHOSPHORIC ACID SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Special Provisions:	223
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	UN 1805
14.2. UN proper shipping name:	PHOSPHORIC ACID SOLUTION

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14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Special Provisions:	A3 A803
Limited quantity Passenger:	1 L
Passenger LQ:	Y841
Excepted quantity:	E1
IATA-packing instructions - Passenger:	852
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	856
IATA-max. quantity - Cargo:	60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Persons responsible for the transport of dangerous goods must be trained.
Security provisions must be observed by all persons involved.
Precautions must be taken to avoid injury

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable, as freight is carried as general cargo, not in bulk.

Other applicable information

Hazard number and packing code are available on request.

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

2010/75/EU (VOC):	4 % (48 g/l)
2004/42/EC (VOC):	4 % (48 g/l)
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

Additional information

For classification and labelling, see section 2.
Observe Chemical Ordinance, ChemO
Observe Chemical Risk Reduction Ordinance, ORRChem
Observe Air Quality Control regulation

National regulatory information

Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Water contaminating class (D):	1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

Revised sections: 1 - 16

Additional information:

<1% in aqueous solution: The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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Abbreviations and acronyms

vPvB = very persistent very bioaccumulative

PBT = persistent bioaccumulative toxic

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Corr. 1; H314	On basis of test data
Eye Dam. 1; H318	Calculation method

Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)