

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

- **1.1 Product identifier**
- **Trade name:** *Grout Cleaner*
- **Assortment:** CLASSIC
- **Article number:** 2001000332
- **EAN-Code:** 4004666000332
- **Type of packaging:** 0,5 l oblong HD-PE-bottle with childresistant sprayer (certified according to EN 862 / ISO 8317)
- **Registration number** All ingredients of this mixture are (pre)registered according to REACh regulation.
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture**
Cleaning agent, alkaline
The product is intended for the general public.
- **Uses advised against** No relevant information available.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
MELLERUD CHEMIE GmbH
Bernhard-Röttgen-Waldweg 20
41379 Brüggen
Germany

Phone: +49 (0)2163 / 950 90 - 0
Fax: +49 (0)2163 / 950 90 - 227
E-mail: service@mellerud.de
www.mellerud.de
- **Informing department:**
Department Regulatory Affairs
e-mail: labor@mellerud.de
- **1.4 Emergency telephone number:**
- **Advisory office in case of poisoning:**
Poison Emergency Call Berlin (24 h)
Phone: + 49 (0)30/30686700

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Eye Dam. 1 H318 Causes serious eye damage.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** The product is labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05

- **Signal word** Danger
- **Hazard-determining components of labelling:**
Isotridecanol, ethoxylated
- **Hazard statements**
H318 Causes serious eye damage.
- **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 Wear 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/doctor.
- **2.3 Other hazards** None, if used properly.

Safety data sheet

according to Regulation (EC) No. 1907/2006

Trade name: *Grout Cleaner*

(Contd. of page 1)

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable.
 This product is a mixture.

3.2 Mixtures

Description:

Waterbased mixture
 Waterbased mixture of surfactants, phosphates, chelating agents

Dangerous components:

CAS: 69011-36-5 NLP: 500-241-6 Reg.nr.: 01-2119976362-32-XXXX	Isotridecanol, ethoxylated ----- Eye Dam. 1, H318 Acute Tox. 4, H302	5-<10%
CAS: 10101-89-0 EINECS: 231-509-8 Reg.nr.: 01-2119489800-32-XXXX	Trisodium phosphate dodecahydrate ----- Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-<5%
CAS: 112-34-5 EINECS: 203-961-6 Reg.nr.: 01-2119475104-44-XXXX	2-(2-butoxyethoxy)ethanol (BUTOXYDIGLYCOL) ----- Eye Irrit. 2, H319	2.5-<5%

SVHC

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of ≥ 0.1 % (w/w).

Regulation (EC) No 648/2004 on detergents / Labelling for contents

non-ionic surfactants	≥ 5 - <15%
phosphates, phosphonates	<5%
perfumes	

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Instantly remove any clothing soiled by the product.
 Show safety data sheet if possible.

After inhalation

Supply fresh air.
 Seek medical treatment in case of complaints.

After skin contact

Instantly wash with water and soap and rinse thoroughly.
 The product is not skin irritating.

After eye contact

Protect uninjured eye.
 Remove contact lenses, if present and easy to do.
 Rinse immediately carefully and thoroughly with eye-bath or water for 15 minutes. Seek medical advice immediately.

· **After swallowing** Immediately make victim drink water (two glasses at most). Consult a physician.

· **4.2 Most important symptoms and effects, both acute and delayed** Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically and directed to relieving any effects.

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(Contd. on page 3)

Trade name: *Grout Cleaner*

(Contd. of page 2)

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** CO₂, extinguishing powder or water jet. Fight larger fires with water jet.
- **For safety reasons unsuitable extinguishing agents** For this mixture no limitations of extinguishing agents are given.
- **5.2 Special hazards arising from the substance or mixture**
Can be released in case of fire:
Carbon monoxide (CO) and Carbon dioxide (CO₂)
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear a self-contained breathing apparatus.
Do not inhale explosion gases or combustion gases.
- **Additional information**
Cool endangered containers with water spray jet.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
For non emergency personnel: Avoid contact with skin, eyes and clothing. Isolate hazard area and deny entry to unnecessary or unprotected personnel.
For emergency responders: Wear protective clothing. See Chapter 8
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or water bodies.
Inform authorities if large amounts are released.
- **6.3 Methods and material for containment and cleaning up:**
Dilute product with plenty of water and rinse away.
Cover drains. Collect, bind, and pump off spills.
Wipe up with absorbent material (e.g. cloth, fleece, sand, diatomite, acid binders, universal binders).
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See section 7 for information on safe handling.
See section 8 for information on personal protection equipment.
See section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Observe label precautions.
Provide adequate ventilation.
Make sure that all applicable workplace limits are observed.
- **Information about protection against explosions and fires:** No special measures required.
- **Advices on general occupational hygiene**
Avoid contact with the eyes.
Immediately change contaminated clothing. Preventive skin protection. Wash hands and face after work.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Keep/store only in labeled original container.
- **Information about storage in one common storage facility:**
Do not store together with: Foodstuffs.
Do not store together with: Acids.
- **Further information about storage conditions:** Keep container tightly closed.
- **Recommended storage temperature:** +5 °C up to +40 °C
- **Storage class** Storage class 12: Non-combustible liquids that cannot be assigned to any of the above storage classes
- **7.3 Specific end use(s)**
See section 1.2

(Contd. on page 4)

Trade name: *Grout Cleaner*

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(Contd. of page 3)

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· 8.1.1 Components with critical values that require monitoring at the workplace:

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol (BUTOXYDIGLYCOL)

AGW (Germany)	Long-term value: 67 mg/m ³ , 10 ppm 1.5(l);EU, DFG, Y, 11
IOELV (European Union)	Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm

· **Occupational exposure limits of decomposition products:** No further relevant information available.

· 8.1.2 DNELs

· Workers

CAS: 69011-36-5 Isotridecanol, ethoxylated

DNEL Long-term – inhalation, local effects	294 mg/m ³
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CAS: 112-34-5 2-(2-butoxyethoxy)ethanol (BUTOXYDIGLYCOL)

DNEL Long-term – dermal, systemic effects	20 mg/kg-bw/day
DNEL Acute – inhalation, local effects	101.2 mg/m ³
DNEL Long-term – inhalation, local effects	67.5 mg/m ³
DNEL Long-term – inhalation, systemic effects	67.5 mg/m ³

· 8.1.3 PNECs

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol (BUTOXYDIGLYCOL)

PNEC aquatic, freshwater	1 mg/l
PNEC sewage treatment plant	200 mg/l
PNEC sediment, freshwater	4 mg/kg dw
PNEC aquatic, intermittent release	3.9 mg/l
PNEC sediment, marine water	0.4 mg/kg dw
PNEC aquatic, marine water	0.1 mg/l

· **8.1.4 Ingredients with biological limit values:** No data available.

· **Additional information:** The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

Methods for measurement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and DIN EN 689.

· **8.2.1 Engineering Controls:** See section 7. No additional measures necessary.

· 8.2.2 Personal protective equipment

· Breathing equipment:

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

- insufficient ventilation
- aerosol or mist formation
- exceeding exposure limit values

· Recommended filter device for short term use:

Combination filter A-P (EN 141) (Color code: brown-white)

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. The measures have to be properly documented.

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

· Protection of hands:

· Full contact:

- Material: Nitrile rubber
- Minimum layer thickness: ≥ 0,11 mm
- Break through time: 480 min
- Material tested: Dermatril® L KCL 741

· Splash contact:

- Material: Nitrile rubber
- Minimum layer thickness: ≥ 0,11 mm
- Break through time: 480 min
- Material tested: Dermatril® L KCL 741

(Contd. on page 5)

Safety data sheet

according to Regulation (EC) No. 1907/2006

Trade name: *Grout Cleaner*

(Contd. of page 4)

· **Penetration time of glove material**

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet (>,<) supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

· **Eye protection:** Tightly sealed safety glasses according to EN166.

· **8.2.3 Limitation and supervision of exposure into the environment** See sections 6 and 7.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **9.1.1 Appearance:**

· Form:	Fluid
· Colour:	Colourless
· Smell:	Citrus
· Odour threshold:	No data available.

· **9.1.2 Safety relevant basic data:**

· pH-value at 20 °C:	10.5 - 11.4 (DIN 19268)
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· **Change in condition**

· Melting point/freezing point:	No data available.
· Initial boiling point and boiling range:	≥100 °C

· **Flash point:** Not safety relevant.

· **Inflammability (solid, gaseous)** No data available / Not applicable

· **Ignition temperature:** Not relevant.

· **Decomposition temperature:** No data available / Not applicable

· **Self-inflammability:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive.

· **Critical values for explosion:**

· Lower:	No data available.
· Upper:	No data available.

· **Oxidising properties** Not oxidizing.

· **Steam pressure at 20 °C:** ≤23 hPa (H₂O, CAS: 7732-18-5 H₂O)

· **Density at 20 °C** ~1027 kg/m³ (ISO 387)

· **Relative density at 20 °C** ~1.027

· **Vapour density** No data available / Not applicable

· **Evaporation rate** No data available / Not applicable

· **Solubility in / Miscibility with**

· **Water:** Fully miscible

· **Partition coefficient: n-octanol/water:** No data available / Not applicable

· **Viscosity:**

· **dynamic:** Not applicable.

· **kinematic:** Not applicable.

· **Surface tension:** 25-40 mN/m

(Contd. on page 6)

Safety data sheet
according to Regulation (EC) No. 1907/2006

Trade name: *Grout Cleaner*

(Contd. of page 5)

· **9.1.3 Data relevant with regard to physical hazard classes (supplemental)**

· **Corrosiveness to metals**

Conclusion/Classification

Not corrosive to metals.

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

· **9.2 Other information**

No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** See section 10.3.

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known

· **10.4 Conditions to avoid** Intense heat.

· **10.5 Incompatible materials:** No further relevant information available.

· **10.6 Hazardous decomposition products:** Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity** The mixture is classified based on calculation method referring to the classified substances present in the mixture.

· **Hazardous substances:**

· **Experimental/calculated data:**

CAS: 69011-36-5 Isotridecanol, ethoxylated

Acute oral toxicity	ATE	500 mg/kg (rat)
Acute dermal toxicity	LD50	>2,000 mg/kg bw (rabbit) (OECD402)
Acute inhalation toxicity	LC50 /4h/dust/mist	1.6 mg/l /Max.conc. (rat) (OECD403)

CAS: 10101-89-0 Trisodium phosphate dodecahydrate

Acute oral toxicity	LD50	>2,000 mg/kg bw (rat) (OECD 420)
Acute dermal toxicity	LD50	>2,000 mg/kg bw (rabbit) (OECD402)
Acute inhalation toxicity	LC50 /4h/dust/mist	>0.83 mg/l /max.conc. (rat) (OECD 423) >5 mg/l (Expert Judgement) (Read-Across)

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol (BUTOXYDIGLYCOL)

Acute oral toxicity	LD50	7,291 mg/kg bw (rat) (OECD 401) 2,410 mg/kg bw (mousse) (OECD 401)
Acute dermal toxicity	LD50	2,764 mg/kg bw (rabbit) (OECD402)
Acute inhalation toxicity	LC 50	(LD50 greater than saturated vapour press) (Classification criteria not met)

· **Product/Mixture:**

· **Acute toxicity estimate (ATE(MIX)) - Calculation method:**

Acute oral toxicity	ATE mix	>5,000 mg/kg
Acute dermal toxicity	-	(Not relevant)
Acute inhalation toxicity	-	(Not relevant)

· **Classification:**

No acute toxicity (Classification criteria not met)

· **Skin corrosion/irritation**

· **Hazardous substances:**

· **Experimental/calculated data:**

CAS: 69011-36-5 Isotridecanol, ethoxylated

Result/evaluation:	No irritation	(rat) (OECD404)
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(Contd. on page 7)

Safety data sheet
according to Regulation (EC) No. 1907/2006

Trade name: *Grout Cleaner*

(Contd. of page 6)

CAS: 10101-89-0 Trisodium phosphate dodecahydrate

Result/evaluation: Skin irritation, Category 2 (Expert Judgement)

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol (BUTOXYDIGLYCOL)

Result/evaluation: No irritation (rabbit) (OECD404)

· **Product/Mixture:**

· **Classification:**

Not classified as Skin corrosive/irritant (Classification criteria not met) (Additivity principle)

· **Serious eye damage/irritation**

· **Hazardous substances:**

· **Experimental/calculated data:**

CAS: 69011-36-5 Isotridecanol, ethoxylated

Result/evaluation: Serious eye damage, Category 1 (rabbit) (OECD 405)

CAS: 10101-89-0 Trisodium phosphate dodecahydrate

Result/evaluation: Eye irritation, Category 2 (rabbit) (EPA OTS 798.4500)

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol (BUTOXYDIGLYCOL)

Result/evaluation: Irritant (rabbit) (No guideline followed)

· **Product/Mixture:**

· **Classification:**

Serious eye damage, Category 1 (Additivity principle)

· **Respiratory or skin sensitisation**

· **Hazardous substances:**

· **Experimental/calculated data:**

CAS: 69011-36-5 Isotridecanol, ethoxylated

Result/evaluation: Does not cause skin sensitisation (guinea pig) (OECD406)
 Does not cause respiratory sensitization (Not tested) (study scientifically not necessary)

CAS: 10101-89-0 Trisodium phosphate dodecahydrate

Result/evaluation: Does not cause skin sensitisation (mousse) (OECD 429)
 Does not cause respiratory sensitization (Not relevant) (no study available)

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol (BUTOXYDIGLYCOL)

Result/evaluation: Does not cause skin sensitisation (guinea pig) (OECD406)
 Does not cause respiratory sensitization (Not classified (data lacking)) (no study available)

· **Product/Mixture:**

· **Classification:**

Not classified as sensitizing (Classification criteria not met) (assessment based on ingredients)

· **Experience with human exposure:** No data available.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

· **Germ cell mutagenicity**

Product/Mixture:

Classification:

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

· **Carcinogenicity**

Product/Mixture:

Classification:

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

(Contd. on page 8)

Safety data sheet
according to Regulation (EC) No. 1907/2006

Trade name: *Grout Cleaner*

(Contd. of page 7)

· **Reproductive toxicity**

Product/Mixture:

Classification:

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

· **STOT-single exposure**

Product/Mixture:

Classification:

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

· **STOT-repeated exposure**

Product/Mixture:

Classification:

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

· **Aspiration hazard**

Product/Mixture:

Classification:

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

SECTION 12: Ecological information

· **12.1 Toxicity**

The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

· **Aquatic toxicity:**

· **Hazardous substances:**

· **Experimental/calculated data:**

CAS: 69011-36-5 Isotridecanol, ethoxylated

ErC50/72h:	2.5 mg/l (algae)
EC50/48 h	1.5 mg/l (Daphnia magna (water flea))
LC50/96 h	2.5 mg/l (fish)

CAS: 10101-89-0 Trisodium phosphate dodecahydrate

EC50/72 h	>100 mg/l (Desmodesmus subspicatus (algae)) (OECD 201)
LC50/96 h	>100 mg/l (rainbow trout (Oncorhynchus mykiss)) (OECD 203)

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol (BUTOXYDIGLYCOL)

LC50/48 h	2,750 mg/l (Leuciscus idus (ide)) (DIN 38412 Teil 15)
EC50/48 h	>100 mg/l (Daphnia magna (water flea)) (OECD 202)

· **Product/Mixture:**

· **Classification:**

Not classified as hazardous to the environment (Classification criteria not met) (Additivity principle)

· **12.2 Persistence and degradability**

· **Hazardous substances:**

CAS: 69011-36-5 Isotridecanol, ethoxylated

Persistence	(No data available)
Biodegradability	90.1 % (28 d) (OECD301D Closed Bottle Test)

CAS: 10101-89-0 Trisodium phosphate dodecahydrate

Persistence	(No data available)
Biodegradability	(Not applicable, inorganic substance)

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol (BUTOXYDIGLYCOL)

Persistence	(No data available)
Biodegradability	>80 % (28 d) (OECD301C Modified MITI Test)

(Contd. on page 9)

Safety data sheet

according to Regulation (EC) No. 1907/2006

Page 9/12

Printing date: 25.03.2020

Revision: 25.03.2020

Version number: 1.00

Trade name: *Grout Cleaner*

(Contd. of page 8)

· **Product/Mixture:**

· **Result / evaluation:**

Anorganic product, is not eliminable from water by means of biological cleaning processes.
The surfactants contained in this preparation 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.

· **12.3 Bioaccumulative potential**

· **Hazardous substances:**

CAS: 69011-36-5 Isotridecanol, ethoxylated

log Pow	4.73 (IUCLID)
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CAS: 10101-89-0 Trisodium phosphate dodecahydrate

Bioaccumulative potential	(No data available)
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CAS: 112-34-5 2-(2-butoxyethoxy)ethanol (BUTOXYDIGLYCOL)

Bio concentration factor (BCF)	>100
log Pow	0.56 (experimental)

· **Product/Mixture:**

· **Result / evaluation:**

Bioaccumulation is not expected.
Does not accumulate in organisms

· **12.4 Mobility in soil** Remarks: No data available

· **Ecotoxicological effects:**

· **Remark:** Harmful effect on fish, planktonic and sessile organisms is possible due to pH shift.

· **Behaviour in sewage processing plants:**

· **Respiratory inhibition of communal activated sludge EC 20 (mg/l according to ISO 8192 B):** Remarks: No data available

· **Additional ecological information:**

· **BSB5-value:** Remarks: No data available

· **General notes:**

Avoid entering sewage water or drainage ditch undiluted or unneutralised.
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
Danger to drinking water if even small quantities leak into soil.
Water hazard class 2 (Self-assessment): hazardous for water.

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

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **13.1.1 Appropriate disposal / Product/Mixture:**

Recommendation:

Dispose of in accordance with local and national regulations.

· **List of proposed waste codes/waste designations in accordance with EWC:**

07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 06 00	wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 01*	aqueous washing liquids and mother liquors
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 10*	packaging containing residues of or contaminated by hazardous substances
20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

(Contd. on page 10)

Safety data sheet

according to Regulation (EC) No. 1907/2006

Trade name: *Grout Cleaner*

(Contd. of page 9)

20 01 00	separately collected fractions (except 15 01)
20 01 29*	detergents containing hazardous substances
HP4	Irritant - skin irritation and eye damage

- **13.1.2 Appropriate disposal / Package:**
- **13.1.2 Recommendation:** Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
- **Recommended cleaning agent:** Use water, if necessary with cleaning agent.

SECTION 14: Transport information

- **UN-Number**
· **ADR/RID/ADN, ADN, IMDG, IATA** Void
- **14.2 UN proper shipping name**
· **ADR/RID/ADN, ADN, IMDG, IATA** Void
- **14.3 Transport hazard class(es)**
· **ADR/RID/ADN, ADN, IMDG, IATA**
· **Class** Void
- **14.4 Packing group**
· **ADR/RID/ADN, IMDG, IATA** Void
- **14.5 Environmental hazards:** Not applicable.
- **14.6 Special precautions for user** Not applicable.
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **Transport/Additional information:** Not dangerous according to the above specifications.
- **UN "Model Regulation":** Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **European Regulations and Directives:**
- **Directive 2010/75/EU on industrial emissions:** 30.7 g/l
- **Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:** Not regulated.
- **Regulation (EU) No 98/2013 on the marketing and use of explosives precursors:** Not regulated.
- **Regulation (EU) No. 528/2012 on biocides:** This product does not fall within the scope of the Biocidal Products Regulation (BPR).
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 55
- **Regulation (EU) No 649/2012** Not regulated.

National regulations

Observe in addition any national regulations!
 Law for Detergents and Cleaning Products in German Federal Legislation (Wasch- und Reinigungsmittelgesetz, WRMG)
 Act on the Protection Against Hazardous Substance (Chemicals Act - ChemG)
 Poisoning information ordinance - ChemGiftInfoV
 Ordinance on Hazardous Substances - GefStoffV
 German Food and Feed Code (LFGB)
 Act on making products available on the market (Product Safety Act)

Information about limitation of use:

- Observe restrictions to employment for juveniles.
- Observe employment restrictions for pregnant and nursing mothers.
- **Ordinance on Hazardous Substances (12. BImSchV):** See information on Directive 2012/18/EU.
- **Solvents Regulation (31st BImSchV):** See information on Directive 2010/75/EU.
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

(Contd. on page 11)

Safety data sheet

according to Regulation (EC) No. 1907/2006

Page 11/12

Printing date: 25.03.2020

Revision: 25.03.2020

Version number: 1.00

Trade name: *Grout Cleaner*

(Contd. of page 10)

· **15.2 Chemical safety assessment:** A chemical safety report is not intended for mixtures.

SECTION 16: Other information

· **16.1 Indication of changes:** The safety data sheet were checked/revised.

· **16.2 Relevant R-, H- and EUH-phrases (number and full text):**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

· **16.3 Training hints**

Provide adequate information, instruction and training for operators.

Please refer to our internet website for more information: www.mellerud.de

· **16.4 Sources of key data used to compile the data sheet:**

Data arise from reference works and literature.

Raw material SDS

CEFIC ERICards Database (<http://www.ericards.net>)

Hazardous materials information system GisChem (www.gischem.de)

The Hazardous Substances Database of Countries (Germany) (GDL) (<http://www.gefahrstoff-info.de>)

TOXNET (<http://toxnet.nlm.nih.gov/index.html>)

International Chemical Safety Cards (ICSC) (<http://www.ilo.org/dyn/icsc/showcard.home>)

CheLIST (<http://chelist.jrc.ec.europa.eu/>)

Classification & labelling inventory of ECHA (http://echa.europa.eu/clp/c_l_inventory_en.asp)

eChemPortal (http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)

GESTIS database (www.dguv.de/bgia/de/gestis/stoffdb/index.jsp)

Registered substances by ECHA (<http://echa.europa.eu/en/information-on-chemicals/registered-substances>)

· **16.5 Additional Information:**

The particulars given in the Material Safety Data Sheet only apply to the described product in connection with its appropriate utilization.

These particulars are based on the latest state of our knowledge and information. In particular, they serve the purpose of describing our product under the aspect of hazards caused by such product and pertaining safety actions. They do not constitute any guarantee of product quality and/or quality features. The particulars given in this Material Safety Data Sheet are required in accordance with article 31 and annex II of the Regulation (EC) No 1907/2006.

· **Classification for mixtures and used evaluation method according to regulation (EC)1207/2008 [CLP]:**

Serious eye damage/eye irritation	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
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· **Department issuing data specification sheet:** Department Regulatory Affairs

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· **16.6 Any Abbreviations and acronyms used in this document:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

Acute Tox.: Acute Toxicity

AGW: Occupational Exposure Limits

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CLP: Classification, Labelling and Packaging of substances and mixtures

DIN: Deutsches Institut für Normung (German Institute for Standardization)

DNEL: Derived No-Effect Level

EU: European Union

EC: European Community

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical

EC50: Effective concentration, 50 percent

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

IMDG: International Maritime Code for Dangerous Goods

(Contd. on page 12)

Safety data sheet
according to Regulation (EC) No. 1907/2006

Page 12/12

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(Contd. of page 11)

IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 IOELV: Indicative Occupational Exposure Limit Values
 PBT: Persistent Bioaccumulative and Toxic
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 OECD: Organisation for Economic Cooperation and Development
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 PNEC: Predicted No-Effect Concentration (REACH)
 VbF: Ordinance on the storage of combustible liquids, Austria (Verordnung über brennbare Flüssigkeiten, Österreich)
 SVHC: Substance of Very High Concern
 Skin Irr. 2: Skin corrosion/irritation – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 vPvB: very Persistent and very Bioaccumulative
 Used abbreviations and acronyms can be looked up at www.wikipedia.org.

· * **Data compared to the previous version altered.** Data changed compared with the previous version.

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