

# Safety data sheet

according to 1907/2006/EC, Article 31

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Printing date: 04.03.2022

Revision: 04.03.2022

Version number 4.0 (replaces version 3.0)

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

### 1.1 Product identifier

**Identification of the substance/preparation:** frisch-aktiv Glaskeramik Reiniger

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

**Application of the substance / the mixture** Cleaning agent/ Cleaner

**Uses advised against** No further relevant information available.

### 1.3 Details of the supplier of the safety data sheet

**Company/undertaking identification:**

ORO-Produkte Marketing International GmbH

Im Hengstfeld 47

D-32657 Lemgo

Telefon: +49 (0)5261 28893-0

Telefax: +49 (0)5261 28893-48

**Further information obtainable from:**

Quality management department

E-Mail: info@oro-marketing.de, www.oro-marketing.de

**1.4 Emergency telephone number:** National Health Service: +44 111

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms** GHS07

**Signal word** Warning

**Hazard statements**

H319 Causes serious eye irritation.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.

P280 Wear eye 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.

P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents and container to problem waste disposal.

**Additional information:**

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

non-ionic surfactants, anionic surfactants

<5%

perfumes, preservation agents (SODIUM BENZOATE)

### 2.3 Other hazards

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

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**Identification of the substance/preparation:** frisch-aktiv Glaskeramik Reiniger

**vPvB:** Not applicable.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Description:** Cleansing agent

#### Dangerous components:

CAS: 68439-46-3 EC number: 932-771-2	Alkohole, C9-11, ethoxyliert ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	1-<5%
CAS: 77-92-9 EINECS: 201-069-1 Reg.nr.: 01-2119457026-42	citric acid ⚠ Eye Irrit. 2, H319	1-<5%
CAS: 97489-15-1 EC number: 307-055-2 Reg.nr.: 01-2119489924-20	Sulfonic acids, C14-17-sec-alkane, sodium salts ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 10 % Eye Dam. 1; H318: C ≥ 15 % Eye Irrit. 2; H319: 10 % ≤ C < 15 %	1-<5%

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General information:** Immediately remove any clothing soiled by the product.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

#### After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

#### After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

#### After swallowing:

Do not induce vomiting; call for medical help immediately.

Rinse out mouth and then drink plenty of water.

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

Causes serious eye irritation.

May cause an allergic skin reaction.

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

No further relevant information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fire with alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

### 5.2 Special hazards arising from the substance or mixture

Danger of forming toxic pyrolysis products.

Carbon oxides (CO<sub>x</sub>)

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Sulphur oxides (SO<sub>x</sub>)

### 5.3 Advice for firefighters

#### Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

Wear self-contained respiratory protective device.

#### Additional information

Cool endangered receptacles with water spray.

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

Wear protective equipment. Keep unprotected persons away.

Avoid contact with the eyes and skin.

Ensure adequate ventilation

### 6.2 Environmental precautions:

Do not allow to reach ground water/water course. Do not allow undiluted product or large quantities of it to reach sewage system.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

### 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 disposal information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Observe information on the label and follow instructions for use.

See Section 8 for information on personal protection equipment.

Avoid contact with the eyes and skin.

Keep away from food, drink and animal feedingstuffs.

#### Information about fire - and explosion protection:

No special precautions are necessary if used correctly.

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

**Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

#### Information about storage in one common storage facility:

Store away from foodstuffs.

Observe the notes from TRGS 510 regarding joint storage of hazardous substances.

#### Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Keep out of reach of children.

**Storage class:** 10

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**7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Exposure limit values:

**CAS: 77-92-9 Citric Acid**

AGW (Germany) Long-term value: 2 E mg/m<sup>3</sup>  
2(I);DFG, Y

#### DNELs

**CAS: 97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts**

Oral	Systemic effect, long-term exposure	7,1 mg/kg bw/day (General population)
Dermal	Systemic effect, long-term exposure	3,57 mg/kg bw/day (General population)
		5 mg/kg bw/day (Workers)
	Local effect, long-term exposure	3,57 mg/cm <sup>2</sup> (General population)
		2,8 mg/cm <sup>2</sup> (Workers)
Inhalative	Local effect, short-term exposure	2,8 mg/cm <sup>2</sup> (General population)
		2,8 mg/cm <sup>2</sup> (Workers)
	Systemic effect, long-term exposure	12,4 mg/m <sup>3</sup> (General population)
		35 mg/m <sup>3</sup> (Workers)

#### PNECs

**CAS: 77-92-9 Citric Acid**

Water	0,44 mg/l (Fresh water) 44 mg/l (Marine water)
Sewage treatment plant (STP)	1.000 mg/l (Microorganisms)
Sediment	34,6 mg/kg dw (Fresh water) 3,46 mg/kg dw (Marine water)
Soil	33,1 mg/kg soil dw (Soil)

**CAS: 97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts**

Water	0,06 mg/l (Fresh water) 0,006 mg/l (Marine water)
Sewage treatment plant (STP)	600 mg/l (Microorganisms)
Sediment	9,4 mg/kg dw (Fresh water) 0,94 mg/kg dw (Marine water)
Soil	9,4 mg/kg soil dw (Soil)
Secondary poisoning, oral	53,3 mg/kg Futter (Predator)

**Additional information:** The lists valid during the making were used as basis.

### 8.2 Exposure controls

**Appropriate engineering controls** No further data; see item 7.

#### General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

The usual precautionary measures are to be adhered to when handling chemicals.

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### Respiratory protection:

Use suitable respiratory protective device when high concentrations are present.

Filter A-P1

### Hand protection

Protective gloves

After use of gloves apply skin-cleaning agents and skin cosmetics.

**Material of gloves** Nitrile rubber, NBR

**Penetration time of glove material** Value for the permeation: Level 6

**For the permanent contact gloves made of the following materials are suitable:**

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0,35$  mm

Value for the permeation: Level 6

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Eye/face protection** Safety goggles according to EN 166 (i.e. goggles with side shields)

**Body protection:** Acid resistant protective clothing

**Environmental exposure controls** Follow instructions for use, dosage and waste disposal.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Colour:</b>	Light blue
<b>Odour:</b>	Solvent-like
<b>Odour threshold:</b>	Not determined.
<b>Melting point/freezing point:</b>	Undetermined.
<b>Boiling point or initial boiling point and boiling range</b>	75-94 °C
<b>Flammability</b>	Not applicable.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Flash point:</b>	>70 °C (Seta Flash Closed Cup)
<b>Auto-ignition temperature:</b>	Product is not selfigniting.
<b>Decomposition temperature:</b>	Not determined.
<b>pH at 20 °C</b>	>2-4
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	Not determined.
<b>Dynamic at 20 °C:</b>	1400-2400 mPas (Brookfield)
<b>Solubility</b>	
<b>water:</b>	Fully miscible.
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure at 20 °C:</b>	~23,4 hPa
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	1,08 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.

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<b>Vapour density</b>	Not determined.
<b>9.2 Other information</b>	
<b>Appearance:</b>	
<b>Form:</b>	Fluid
<b>Important information on protection of health and environment, and on safety.</b>	
<b>Explosive properties:</b>	Product does not present an explosion hazard.
<b>Change in condition</b>	
<b>Evaporation rate</b>	Not determined.
<b>Information with regard to physical hazard classes</b>	
<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	Void
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Void
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

### SECTION 10: Stability and reactivity

**10.1 Reactivity** Reacts with alkali and metals.

**10.2 Chemical stability** No decomposition if used and stored according to specifications.

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

**10.4 Conditions to avoid** Protect from heat and direct sunlight.

**10.5 Incompatible materials:** Reacts with strong acids and oxidising agents.

**10.6 Hazardous decomposition products:** No decomposition if used according to specifications.

### SECTION 11: Toxicological information

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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

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### LD/LC50 values relevant for classification:

#### domol Glaskeramik-Reiniger 300ml

Oral	ATE <sub>mix</sub>	>2.000 mg/kg (calculated value)
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#### CAS: 77-92-9 Citric Acid

Oral	LD <sub>50</sub>	5.400 mg/kg/bw (Mouse) (OECD 401)
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Dermal	LD <sub>50</sub>	>2.000 mg/kg/bw (Rat) (OECD 402)
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Inhalative	ATE	>20 (unspecified)
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#### CAS: 97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts

Oral	LD <sub>50</sub>	1.199,99 mg/kg/bw (Rat) (OECD 401)
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### Skin corrosion/irritation

Expert judgement:

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

**Serious eye damage/irritation** Expert judgement:

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

**Reproductive toxicity** 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.

### Information on likely routes of exposure

Ingestion:

Gastric or intestinal disorders

Inhalation:

No further relevant information available.

Skin Contact:

May cause an allergic skin reaction.

Eye Contact:

Causes serious eye irritation.

### 11.2 Information on other hazards

#### Endocrine disrupting properties

None of the ingredients is listed.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

#### CAS: 68439-46-3 Alkohole, C9-11, ethoxyliert

LC <sub>50</sub> /96h	5-7 mg/l (Fish)
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EC <sub>50</sub> /72h	1,4-4,7 mg/l (Algae)
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	5,3 mg/l (Daphnia magna)
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#### CAS: 77-92-9 Citric Acid

LC <sub>50</sub> /96h	440-760 mg/l (Fish) (OECD 203)
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EC <sub>50</sub> /72h	120 mg/l (Daphnia magna)
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NOEC	425 mg/l (Algae)
<b>CAS: 97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts</b>	
LC <sub>50</sub> /96h	5,5 mg/l (Fish) (OECD 203)
EC <sub>50</sub> /48h	9,2 mg/l (Daphnia magna) (OECD 202)
EC <sub>50</sub> /72h	>61 mg/l (Algae) (OECD 201)
NOEC	0,4 mg/l (Daphnia magna) (OECD 211)
	0,9 mg/l (Oncorhynchus mykiss) (OECD 211)

### 12.2 Persistence and degradability

The surfactants contained in the product correspond to the legislation on the environmental compatibility of detergents and are biodegradable.

<b>CAS: 77-92-9 Citric Acid</b>	
Biodegradability	97 % (28d) (OECD 301 B)
<b>CAS: 97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts</b>	
Biodegradability	78 % (28d) (OECD 301 B)

### 12.3 Bioaccumulative potential

<b>CAS: 97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts</b>	
Bioaccumulation potential	0,2 log K <sub>OW</sub> (unspecified)

**12.4 Mobility in soil** No further relevant information available.

### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

### 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

### 12.7 Other adverse effects

#### Behaviour in sewage processing plants:

Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge. Before allowing large quantities to be fed into sewage plants, obtain the approval of the responsible authorities.

#### Other information:

#### General information:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow to reach ground water/water course. Do not allow undiluted product or large quantities of it to reach sewage system.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Recommendation

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

<b>European waste catalogue</b>	
06 01 99	wastes not otherwise specified
15 01 06	mixed packaging

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### Uncleaned packaging:

#### Recommendation:

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR/RID, IMDG, IATA

Void

### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA

Void

### 14.3 Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA

Class

Void

### 14.4 Packing group

ADR/RID, IMDG, IATA

Void

### 14.5 Environmental hazards:

Marine pollutant:

No

### 14.6 Special precautions for user

Not applicable.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

### UN "Model Regulation":

Void

## SECTION 15: Regulatory information

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

Labelling according to EC guidelines: .

Directive 2012/18/EU Not applicable

Named dangerous substances - ANNEX I None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

Regulation (EU) No 649/2012

#### Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

#### Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

### National regulations:

#### Other regulations, limitations and prohibitive regulations

Other regulations (EC): Directive 98/24/EEC

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**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Relevant phrases

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

**Training hints** Make sure that users are appropriately informed, instructed and trained.

#### Classification according to Regulation (EC) No 1272/2008

The skin and/or eye classification of this product was derived using bridging principles (such as dilution, interpolation within one hazard category or substantially similar mixtures; with or without expert judgement) following Article 9(3) and Article 9(4) of Regulation (EC) No 1272/2008.

DetNet logging number: 1544

Calculation method:

**Department issuing SDS:** Quality management department

**Version number of previous version:** 3.0

#### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**Sources** Safety data sheet for raw materials, [eur-lex.europa.eu](http://eur-lex.europa.eu), [echa.europa.eu](http://echa.europa.eu)

\* Data compared to the previous version altered. .