

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 27.04.2016

Version number 16

Revision: 27.04.2016

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

1.1 Product identifier

Trade name: Geschirrspülpulver

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

No further relevant information available.

Application of the substance / the mixture

Product is for professional use only.

Dishwasher formulation

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Renosan Chemie & Technik GmbH

Bodenseestr. 29

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.



GHS07

STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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



GHS05 GHS07

Signal word Danger

Hazard-determining components of labelling:

sodium metasilicate pentahydrate

Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

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P273 Avoid release to the environment.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P314 Get medical advice/attention if you feel unwell.
 P406 Store in corrosive resistant container with a resistant inner liner.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures Mixture of soda, phosphates, silicates, bleaching agent and surfactant.**Dangerous components:**

CAS: 10213-79-3 EINECS: 229-912-9	sodium metasilicate pentahydrate ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; STOT SE 3, H335	>30%
CAS: 497-19-8 EINECS: 207-838-8 Index number: 011-005-00-2 Reg.nr.: 01-2119485498-19	sodium carbonate ⚠ Eye Irrit. 2, H319	15-30%
CAS: 51580-86-0 EINECS: 220-767-7 Index number: 613-030-01-7	sodium dichloroisocyanurate, dihydrate ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319; STOT SE 3, H335	<1%

Classification in accordance with Directive 648/2004:

chlorine-based bleaching agents, phosphates, non-ionic surfactants, polycarboxylates	< 5%
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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.

Take affected persons out of danger area and instruct to lie down.

After inhalation Supply fresh air; consult doctor in case of symptoms.**After skin contact**

Instantly 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. Then consult doctor.**After swallowing**

Rinse out mouth and then drink plenty of water.

Seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.**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**

Use fire fighting measures that suit the environment.

CO₂, extinguishing powder or water jet. Fight larger fires with water jet.**For safety reasons unsuitable extinguishing agents** Water with a full water jet.**5.2 Special hazards arising from the substance or mixture**

In case of contact with acids liberation of chlorine is possible.

5.3 Advice for firefighters**Protective equipment:** Wear self-contained breathing apparatus.**Additional information** Product is not combustible.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing.
Avoid causing dust.

6.2 Environmental precautions:

Do not allow product to reach sewage systems or water bodies in great quantities.

6.3 Methods and material for containment and cleaning up:

Collect mechanically.
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 information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not mix with other products, particularly not with acids.
Prevent formation of dust.

Information about protection against explosions and fires: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers:

The official regulations for storage of chemicals hazardous to water must be observed.
Use only containers specifically permitted for this substance/product.

Information about storage in one common storage facility: Special Storage of hazardous substances.

Further information about storage conditions:

Keep container tightly sealed.
Store under dry conditions.

Storage class TRGS 510: LGK 8B

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with limit values that require monitoring at the workplace:

General dust limit:
AGW: 3 mg/m³, 10 mg/m³ (2.4 TRGS 900)

CAS: 51580-86-0 sodium dichloroisocyanurate, dihydrate

WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures should be adhered to general rules for handling chemicals.
Avoid contact with the eyes and skin.
Keep away from foodstuffs, beverages and food.
Instantly remove any clothing soiled by the product.

Breathing equipment: Not required.

Protection of hands: Chemical resistant protective gloves (EN 374).

Material of gloves

Chemical protection gloves of the category III in accordance with EN 374. Consider the data of the manufacturers at the permeability and break-through times as well as the special conditions on the job (mechanical load, contact duration)

Thickness: > 0.4 mm, Breakthrough time: > 480 min, Material: nitrile, butyl rubber

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.

Penetration time of glove material

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

Eye protection: Tightly sealed safety glasses.

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Trade name: **Geschirrspülpulver****Body protection:** Wear suitable protective clothing.

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

Form:	Powder
Colour:	white
Odour:	slightly like surfactant
Odour threshold:	Not determined

pH-value (10 g/l) at 20 °C: 12.4**Change in condition**

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined
Crystallisation temperature / range:	Not determined

Flash point: Not applicable**Ignition temperature:** Not determined**Decomposition temperature:** Not determined**Self-inflammability:** Product is not selfigniting.**Critical values for explosion:****Oxidising properties** no**Density** Not applicable**Bulk weight at 20 °C** 1100 kg/m³**Solubility in / Miscibility with****Water at 20 °C:** >50 g/l**9.2 Other information** No further relevant information available.**SECTION 10: Stability and reactivity****10.1 Reactivity** No further relevant information available.**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 Contact with acids releases toxic gases**10.4 Conditions to avoid** No further relevant information available.**10.5 Incompatible materials:** No further relevant information available.**10.6 Hazardous decomposition products:** Chlorine(with acid)**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity** No data for the preparation available.**LD/LC50 values that are relevant for classification:****CAS: 10213-79-3 sodium metasilicate pentahydrate**

Oral | LD50 | 1400 mg/kg (rat)

CAS: 51580-86-0 sodium dichloroisocyanurate, dihydrate

Oral | LD50 | 1400 mg/kg (rat)

Primary irritant effect:**Skin corrosion/irritation**

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes severe skin burns and eye damage.

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

Chlorine released in result of contact with acids may cause severe damage of eyes and respiratory tract.

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The toxicological evaluation of the preparation took place in accordance with computation methods after GefStoffV / European Union preparing guideline.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
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

May cause respiratory irritation.

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
Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:
COD-value: 30 g O₂/kg product

AOX-indication: Product halogenates and contributes to the AOX-value.

General notes:

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

In case of product reaches waters untreated, harmful effects on fish and aquatic organism are possible (pH-shift and release of chlorine).

The surfactant(s) contained in this preparation 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.

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
Recommendation Must be specially treated with regard to official regulations.

Waste disposal key number:

The exact waste code must be agreed with the disposer.

Hazardous waste according to European Waste Catalogue (EWC).

European waste catalogue

Product:

 200129 **cleaning agent containing dangerous substances**
Uncleaned packagings:

Contaminated packages must be completely emptied and may be reused after proper cleaning.

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number
ADR, IMDG

UN3262

14.2 UN proper shipping name
ADR

 3262 ÄTZENDER BASISCHER ANORGANISCHER FESTER STOFF, N.A.G. (DINATRIUMTRIOXOSILICAT)
 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.
 (DISODIUM TRIOXOSILICATE)

IMDG

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14.3 Transport hazard class(es)**ADR**

Class 8 (C6)
Label 8

IMDG

Class 8

14.4 Packing group
ADR, IMDG

III

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user

Kemler Number: 80
EMS Number: F-A,S-B
Segregation groups Alkalis

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

Not applicable.

Transport/Additional information:**ADR**

Limited quantities (LQ) 5 kg
Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 1000 g

Transport category

3

Tunnel restriction code

E

Remarks:

Dependent on the packing variant special arrangements for "limited quantities" and exemptions (addr Kap.3.4.) can be taken up.

IMDG

Limited quantities (LQ) 5 kg
Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 1000 g

UN "Model Regulation":

UN3262, CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (DISODIUM TRIOXOSILICATE), 8, III

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Labelling according to Regulation (EC) No 1272/2008

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

Hazard pictograms

GHS05 GHS07

Signal word Danger**Hazard-determining components of labelling:**

sodium metasilicate pentahydrate

Hazard statements

H290 May be corrosive to metals.

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H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P273 Avoid release to the environment.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P314 Get medical advice/attention if you feel unwell.
P406 Store in corrosive resistant container with a resistant inner liner.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations**Information about limitation of use:**

Employment restrictions concerning young persons must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
Employment restrictions concerning women of child-bearing age must be observed.

Water hazard class (Germany): Water hazard class 1 (Self-assessment): slightly hazardous for water.

Other regulations, limitations and prohibitive regulations**Substances of very high concern (SVHC) according to REACH, Article 57**

The product contains no substances from SVHC list.

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

SECTION 16: Other information

The above information is based on our present knowledge about the product. It does not guarantee specific product features.

Full text of R-phrases listed in chapters 2 and 3:

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Department issuing data specification sheet: Manufacturer

Reference to modifications:

Please take notice of the changes made in compare to the last version from 15 in the following sections: 1.15

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Met. Corr.1: Corrosive to metals, Hazard Category 1
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

Sources KC-225672K