

Safety data sheet

according to 1907/2006/EC, Article 31

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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: Scanpart Descaler Tabs 6 x 15 g

UFI: AP0N-GDYQ-9A0Y-NS4V

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

Application of the substance / the mixture Descaler

1.3 Details of the supplier of the safety data sheet

Company/undertaking identification:

Menz + Könecke GmbH

An der Beek 255

D-41372 Niederkrüchten

+49 (0)2163 594 0

www.menz.de

Further information obtainable from: E-Mail: info@menz.de

1.4 Emergency telephone number: Poison Information Center North + 49 551 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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

Additional information:

The classification of the mixture bases on test data for the following hazard classes (for further information see section 11):

Skin corrosion/irritation

Serious eye damage/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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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

P102 Keep out of reach of children.

P280 Wear protective gloves.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of contents/container in a safe manner.

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Identification of the substance/preparation: Scanpart Descaler Tabs 6 x 15 g

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2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Determination of endocrine-disrupting properties Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 5329-14-6 EINECS: 226-218-8 Reg.nr.: 01-2119488633-28	sulphamidic acid ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	50-100%
CAS: 497-19-8 EINECS: 207-838-8 Reg.nr.: 01-2119485498-19	sodium carbonate ⚠ Eye Irrit. 2, H319	≥5-<10%
CAS: 124-04-9 EINECS: 204-673-3 Reg.nr.: 01-2119457561-38	adipic acid ⚠ Eye Irrit. 2, H319	≥5-<10%

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

After inhalation: Take affected persons into fresh air and keep quiet.

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. Then consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting.

If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation.

Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Water spray

Carbon dioxide

Fire-extinguishing powder

Foam

Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

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Carbon oxides (COx)
Sulphur oxides (SOx)
Nitrogen oxides (NOx)

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with the eyes and skin.
Wear protective clothing.

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.
Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Pick up mechanically.
Send for recovery or disposal in suitable receptacles.

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

Wear protective clothing.
Avoid contact with the eyes and skin.
Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.
Protect from humidity and water.

Information about storage in one common storage facility:

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

Further information about storage conditions: Store separately from food.

Storage class: 13

7.3 Specific end use(s) Cleaning agents

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limit values:

CAS: 124-04-9 adipic acid

AGW (Germany)	Long-term value: 2 E mg/m ³ 2(I);DFG, Y, TRGS 900
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CAS: 25322-68-3 Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated

AGW (Germany)	Long-term value: 200 E mg/m ³ 2(II);DFG, Y, TRGS 900
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DNELs

CAS: 5329-14-6 sulphamidic acid

Oral	Systemic effect, long-term exposure	5 mg/kg bw/day (General population)
Dermal	Systemic effect, long-term exposure	5 mg/kg bw/day (General population) 10 mg/kg bw/day (Workers)
Inhalative	Systemic effect, long-term exposure	17,4 mg/m ³ (General population) 70,5 mg/m ³ (Workers)

CAS: 497-19-8 sodium carbonate

Inhalative	Local effect, long-term exposure	10 mg/m ³ (Workers)
	Local effect, short-term exposure	10 mg/m ³ (General population)

CAS: 124-04-9 adipic acid

Dermal	Systemic effect, long-term exposure	38 mg/kg bw/day (Workers)
	Systemic effect, short-term exposure	38 mg/kg bw day (Workers)
Inhalative	Systemic effect, long-term exposure	264 mg/m ³ (Workers)
	Systemic effect, short-term exposure	264 mg/m ³ (Workers)
	Local effect, long-term exposure	5 mg/m ³ (Workers)
	Local effect, short-term exposure	5 mg/m ³ (Workers)

PNECs

CAS: 5329-14-6 sulphamidic acid

Water	1,8 mg/l (Fresh water)
	0,48 mg/l (Intermittent release (Fresh water))
	0,18 mg/l (Marine water)
Sewage treatment plant (STP)	20 mg/l (Microorganisms)
Sediment	8,36 mg/kg dw (Fresh water)
	0,84 mg/kg dw (Marine water)
Soil	5 mg/kg soil dw (Soil)

CAS: 124-04-9 adipic acid

Water	0,126 mg/l (Fresh water)
	0,46 mg/l (Intermittent release (Fresh water))
	0,0126 mg/l (Marine water)
Sewage treatment plant (STP)	59,1 mg/l (Microorganisms)
Sediment	0,484 mg/kg dw (Fresh water)
	0,0484 mg/kg dw (Marine water)
Soil	0,228 mg/kg soil dw (Soil)

8.2 Exposure controls

General protective and hygienic measures: Do not eat, drink, smoke or sniff while working.

Respiratory protection: Not required.

Hand protection

Avoid direct contact with the chemical/ the product/ the preparation by organisational measures.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

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.

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Penetration time of glove material
 The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour:	White
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	Undetermined.
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Decomposition temperature:	Not determined.
pH at 20 °C	1,6
Viscosity:	
Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.
	Not applicable.
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	0 hPa (CAS: 5329-14-6 sulphamidic acid)
Density and/or relative density	
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not applicable.
Particle characteristics	
See section 3.	

9.2 Other information

Appearance:	
Form:	Tablets
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Solids content:	98,0 %

Information with regard to physical hazard

classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void

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Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 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 humidity and water.
- 10.5 Incompatible materials: No further relevant information available.
- 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.

LD/LC50 values relevant for classification:

CAS: 5329-14-6 sulphamidic acid

Oral	LD50 ₅₀	>2.000 mg/kg/bw (Rat)
Dermal	LD ₅₀	>2.000 mg/kg/bw (Rat) (OECD 402)
Inhalative	ATE _{mix}	>20 mg/l (unspecified)

CAS: 497-19-8 sodium carbonate

Oral	LD50 ₅₀	2.800 mg/kg/bw (Rat)
Dermal	LD ₅₀	>2.000 mg/kg/bw (Rabbit) (EPA 16 CFR 1500.40)
Inhalative	LC ₅₀ /2h	2,3 mg/l (Rat) (*)

CAS: 124-04-9 adipic acid

Oral	LD50 ₅₀	5.560 mg/kg/bw (Rat)
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Skin corrosion/irritation

Classification basing on test data:

Causes skin irritation.

Serious eye damage/irritation

Classification basing on test data:

Causes serious eye irritation.

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.

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Identification of the substance/preparation: Scanpart Descaler Tabs 6 x 15 g

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11.2 Information on other hazards**Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:****CAS: 5329-14-6 sulphamidic acid**LC₅₀/96h 70,3 mg/l (Pimephales promelas) (OECD 203)EC₅₀/48h 71,6 mg/l (Daphnia magna) (OECD 202)EC₅₀/72h 48 mg/l (Algae) (OECD 201)

NOEC/72h 18 mg/l (Algae) (OECD 201)

CAS: 497-19-8 sodium carbonateLC₅₀/96h 300 mg/l (Fish)EC₅₀/48h 200-227 mg/l (Invertebrates)

NOEC/96h 1-10 mg/l (Algae)

CAS: 124-04-9 adipic acidLC₅₀/48h 46 mg/l (Daphnia magna)**12.2 Persistence and degradability** No further relevant information available.**12.3 Bioaccumulative potential****CAS: 5329-14-6 sulphamidic acid**Bioaccumulation potential <1 log K_{ow} (calculated value)**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:**

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Water hazard class 1 (German Regulation) (Self-assessment): slightly 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.

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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.

European waste catalogue

20 01 29* detergents containing hazardous substances

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

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:

Not applicable.

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

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

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.

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

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Identification of the substance/preparation: Scanpart Descaler Tabs 6 x 15 g

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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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

On basis of test data:

H315

H319

Calculation method

H412

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)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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

AGW: Arbeitsplatzgrenzwert (Workplace exposure limit)

DFG: Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, WILEY-VCH, Weinheim (German Research Foundation MAK and BAT values list, Senate Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area, WILEY-VCH, Weinheim)

Y: Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden (There is no need to fear fetal impairment if the occupational exposure limit value and the biological limit value (BGW) are complied with.)

EC50: effective concentration, 50 percent

OECD: Organization for Economic Co-operation and Development

ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IBC: Intermediate bulk container

MARPOL: Marine Pollution

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

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

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