neutrakon®
neutralisiert saure Kondensate

SAFETY DATA SHEET

prepared in accordance with Annex II of the REACH Regulation EC 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010.

Version *2.1*

Revision Date 01.06.2016
Print Date 15.02.2017
Date of first issue 17.04.2012

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

1.1. Product identifier

Product name	**Neutrakon® Neutralisationsgranulat GS**
Synonyms	Neutrakon® Neutralisationsgranulat GS
Trade name	**Neutrakon® Neutralisationsgranulat GS**

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

Find hereunder a general description of uses.

Water treatment chemicals

There are no uses advised against.

1.3. Details of the supplier of the safety data sheet

Company	**Mommertz GmbH**
Address	Daimlerstraße 8 D-89312 Günzburg Germany
Telephone	+4982218238
Telefax	+49822138616
E-mail of competent person responsible for SDS in the MS or in the EU:	info@mommertz.de

1.4. Emergency telephone number

Emergency telephone number (Europe)	**112** ***This telephone number is available 24 hours per day, 7 days per week.***

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Further information

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2. Label elements

Hazard pictograms
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Signal word
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Hazard statements
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Precautionary statements
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3. Other hazards

No other hazards identified.

SECTION 3: Composition/information on ingredients

3.2. Mixture

Identification of the mixture: Akdolit® Hydrolit MG

Hazardous ingredients:

Chemical name	CAS-No.	EC-No.	REACH No.	Index-No.	Weight percent	REGULATION (EC) No 1272/2008
Magnesium hydroxide	1309-42-8	215-170-3	01-2119488756-18	—	50	—
Magnesium oxide	1309-48-4	215-171-9	01-2119474202-47	—	50	—

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Consult a physician for all exposures except for minor instances. Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air immediately. Get medical attention immediately.
Skin contact 	Wash off immediately with plenty of water for at least 15 minutes. Call a physician if irritation develops or persists.
Eye contact	If in eyes, rinse with water for 15 minutes. Call a physician if irritation persists.

	
Ingestion	Immediately give large quantities of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.

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

Diarrhoea

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

Follow the advice given in section 4.1.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water Carbon dioxide (CO_2) Foam Dry chemical
Unsuitable extinguishing media	none

5.2. Special hazards arising from the substance or mixture

None

5.3. Advice for firefighters

Avoid dust formation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. Advice for non-emergency personnel	Keep dust levels to a minimum, and ensure that sufficient ventilation or suitable respiratory protective equipment is used (section 8).
6.1.2. Advice for emergency responders	See section 6.1.1

6.2. Environmental precautions

Try to prevent the material from entering drains or water courses.
Do not allow uncontrolled discharge of product into the environment.

6.3. Methods and materials for containment and cleaning up

Keep the material dry if possible.
Pick up the product mechanically in a dry way.
Use vacuum suction unit, or shovel into bags.

6.4. Reference to other sections

For more information on exposure controls/personal protection or disposal considerations, please check section 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

7.1.1. Protective measures	Keep dust levels to a minimum. Minimise dust generation. Enclose dust sources, use exhaust ventilation (dust collector at handling points). Handling systems should preferably be enclosed. When handling bags usual precautions should be paid to the risks outlined in the Council Directive 90/269/EEC.
7.1.2. Advice on general occupational hygiene	All ventilation systems should be filtered before discharge to atmosphere.

7.2. Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry, cool and well-ventilated place.
Store at room temperature.

7.3. Specific end use(s)

none

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

Chemical name	Form	Limit value	Legal basis
Magnesium hydroxide	No data available	No data available	No data available
Magnesium oxide	8h TWA inhalable aerosol 8h TWA respirable aerosol	10 mg/m3 4 mg/m3	EH40/2005 Workplace Exposure Limits

Derived No Effect Level

Workers

Chemical name	Exposure routes	Acute local effects	Acute systemic effects	Long-term local effects	Long-term systemic effects
Magnesium hydroxide	Oral	Not required	Not required	Not required	Not required
	Inhalation	No hazard identified	117,54 mg/m3	No hazard identified	117,54 mg/m3
	Dermal	No hazard identified	16,67 mg/kg bw/day	No hazard identified	16,67 mg/kg bw/day
Magnesium oxide	Oral	Not required	Not required	Not required	Not required
	Inhalation	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

Consumers

Chemical name	Exposure routes	Acute local effects	Acute systemic effects	Long-term local effects	Long-term systemic effects
Magnesium hydroxide	Oral	no exposure expected	10 mg/kg bw/day	no exposure expected	10 mg/kg bw/day
	Inhalation	No hazard identified	34,78 mg/m3	No hazard identified	34,78 mg/m3
	Dermal	No hazard identified	10 mg/kg bw/day	No hazard identified	10 mg/kg bw/day
Magnesium oxide	Oral	No data available	No data available	No data available	No data available
	Inhalation	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

<u>Predicted No Effect Concentration</u>

Chemical name	Environmental protection target							
	Fresh water	Fresh water sediment	Marine water	Marine sediment	Food chain	Microorganisms in sewage treatment	Soil	Air
Magnesium hydroxide	0,1 mg/l	0,082 mg/ kg sediment dw	0,01 mg/l	0,0082 mg/ kg sediment dw	66,67 mg/ kg food	1 mg/l	0,0191 mg/kg soil dw	No data available
Magnesium oxide	No data available	No data available	No data available	No data available	No data available	No data available	No data available	No data available

8.2. Exposure controls

To control potential exposures, generation of dust should be avoided. Further, appropriate protective equipment is recommended. Eye protection equipment (e.g. goggles or visors) must be worn, unless potential contact with the eye can be excluded by the nature and type of application (i.e. closed process). Additionally, face protection, protective clothing and safety shoes are required to be worn as appropriate.

8.2.1. Appropriate engineering controls	Handling systems should preferably be enclosed or suitable ventilation installed to maintain atmospheric dust below the OES, if not wear suitable protective equipment.

8.2.2. Individual protection measures, such as personal protective equipment

8.2.2.1. Eye/face protection 	For powders, tight fitting goggles with side shields, or wide vision full goggles. It is also advisable to have individual pocket eyewash. Do not wear contact lenses.
8.2.2.2. Skin protection 	Use approved nitrile impregnated gloves having CE marks. Use clothing fully covering skin, full length pants, long sleeved overalls, with close fittings at openings. Footwear resistant to caustics and avoiding dust penetration.
8.2.2.3. Respiratory protection 	Use appropriate respiratory protection against particles according to the risk level.
8.2.2.4. Thermal hazards	The substance does not represent a thermal hazard, thus special consideration is not required.

8.2.3. Environmental exposure controls	Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Colour: white Form: granular
Odour:	Odourless
Odour Threshold:	Not applicable
pH:	9,5 - 10,5
Melting point:	1.425 °C; Calculation method
Boiling point:	1.960 °C; Calculation method
Flash point:	Not applicable
Evaporation rate:	Not applicable
Flammability:	The product is not flammable. Lower flammability limit: No data available Upper flammability limit: No data available
Explosive properties:	Not explosive <u>Upper/Lower explosion limit</u> lower: No data available upper: No data available
Vapour pressure:	Not applicable
Vapour density:	Not applicable
Relative density:	2,95 g/cm3; 20 °C; Calculation method
Bulk density	No data available
Solubility(ies):	47,5 mg/l; Calculation method
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition temperature:	does not ignite
Decomposition temperature:	320 °C; $Mg(OH)_2$
Viscosity, kinematic:	Not applicable
Oxidizing properties:	No oxidising properties. (Based on the chemical structure, the substance does not contain a surplus of oxygen or any structural groups known to be correlated with a tendency to react exothermally with combustible material).

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

$MgO + H_2O \rightarrow Mg(OH)_2$

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Exothermic reaction with strong acids.

10.4. Conditions to avoid

Minimize exposure to air and moisture to avoid degradation.

10.5. Incompatible materials

The product reacts exothermically with acids to form salts.
Strong acids and oxidizing agents

10.6. Hazardous decomposition products

none

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity
MgO
Oral LD50 > 5000 mg/kg (rat)
Dermal LD50 > 2000 mg/kg (rabbit)
Mg(OH)2
No data available

Serious eye damage/eye irritation
MgO
May cause mechanical irritation.
Mg(OH)2
May cause eye irritation with susceptible persons.

Skin corrosion/irritation
MgO
Prolonged or repeated contact may dry skin and cause irritation.
Mg(OH)2
Not irritating

Respiratory or skin sensitisation
MgO
No data available
Mg(OH)2
Does not cause skin sensitisation.

STOT - repeated exposure
MgO
No data available
Mg(OH)2
No data available

Carcinogenicity

MgO
No data available
Mg(OH)2
No data available

Germ cell mutagenicity
MgO
No data available
Mg(OH)2
No data available

Reproductive toxicity
MgO
No data available
Mg(OH)2
Animal testing did not show any hazardous effects.

STOT - single exposure
MgO
No data available
Mg(OH)2
No data available

Aspiration hazard
MgO
No data available
Mg(OH)2
No data available

SECTION 12: Ecological information

12.1. Toxicity

12.1.1. Toxicity to fish	MgO: No data available Mg(OH)2: Oncorhynchus mykiss (rainbow trout); LC50; 96 h; 775 mg/l;
12.1.2. Toxicity to aquatic invertebrates	MgO: No data available Mg(OH)2: Daphnia magna (Water flea); LC50; 48 h; 284 mg/l;
12.1.3. Toxicity to aquatic plants	MgO: No data available Mg(OH)2: Chlorella Pyrenoidosa (algae); EC50; 72 h; 100 mg/l;
12.1.4. Toxicity to microorganisms / Toxicity to bacteria	MgO: No data available Mg(OH)2: activated sludge; EC50; 3 h; 100 mg/l;
12.1.5. Toxicity to daphnia and other aquatic invertebrates	MgO: No data available Mg(OH)2: No data available
12.1.6. Toxicity to soil dwelling organisms	MgO: No data available Mg(OH)2: Soil microorganisms; EC50; 24 h; 302mg/L;
12.1.7. Toxicity to terrestrial plants	MgO: No data available

	$Mg(OH)_2$: No data available
12.1.8. Other effects	Not applicable
12.1.9. Other information	None

12.2. Persistence and degradability

Not relevant for inorganic substances.

12.3. Bioaccumulative potential

Not relevant for inorganic substances.

12.4. Mobility in soil

Slightly mobile in soils

12.5. Results of PBT and vPvB assessment

The substance does not meet the criteria for PBT or vPvB substance.

12.6. Other adverse effects

No other adverse effects are identified.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Reuse or recycle whenever possible.
If the reuse or recycling is not possible, disposal must be made according to local and national regulation.
Processing, use or contamination of this product may change the waste management options.
Waste classification code must be determined at the point of waste generation.
Dispose of container and unused contents in accordance with applicable member state and local requirements.
The used packaging is only meant for packing this product; it should not be reused for other purposes.

SECTION 14: Transport information

The product is not classified as hazardous for transport (ADR (Road), RID (Rail), IMDG / GGVSea (Sea)).

14.1. UN number

Not regulated

14.2. UN proper shipping name

Not regulated

14.3. Transport hazard class(es)

Not regulated

14.4. Packing group	
Not regulated	
14.5. Environmental hazards	
None.	
14.6. Special precautions for user	
Not regulated	
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
Not regulated	
SECTION 15: Regulatory information	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
Authorisations	Not required
Restrictions on use	None
Other regulations (European Union)	The product is not a SEVESO substance, not an ozone depleting substance and not a persistent organic pollutant.
National regulatory information	German legislation on water endangering substances VwVwS slightly water endangering (WGK 1)
15.2. Chemical safety assessment	
A Chemical Safety Assessment is not required for this substance.	
SECTION 16: Other information	
Data are based on our latest knowledge but do not constitute a guarantee for any specific product features and do not establish a legally valid contractual relationship.	
16.1. Hazard statements	
Preparation	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
Components	
Magnesium hydroxide	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
Magnesium oxide	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
16.2. Precautionary statements	
	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
16.3. Abbreviations	
	DNEL: Derived no effect level

	EC50: median effective concentration LC50: median lethal concentration LD50: median lethal dose NOEC: no observable effect concentration OEL: occupational exposure limit PBT: persistent, bioaccumulative, toxic chemical PNEC: predicted no-effect concentration SDS: Safety data sheet STEL: short-term exposure limit STOT: specific target organ toxicity TWA: time weighted average vPvB: very persistent, very bioaccumulative chemical

16.4. Literary reference

Data sheet prepared in accordance with:
Annex II of the REACH Regulation (EC) 1907/2006.
References:
1.Council Directive 90/269/EEC
2.Booklet L64 - Safety Signs and Signals. The Health and Safety (Safety Signs and Signals) Regulations 1996 - Guidance on Regulations (HSE) - ISBN 978 0 7176 6359 0
3. http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances
4.The Merck Index (Ed. Merck & Co, Rahway, USA)

Unless identified otherwise, the classification of the mixture is derived by hazard assessment of the individual mixture constituents [Regulation (EC) No 1272/2008].

16.5. Additions, Deletions, Revisions

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Disclaimer

This safety data sheet (SDS) is based on the legal provisions of the REACH Regulation (EC 1907/2006; article 31 and Annex II), as amended. Its contents are intended as a guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this SDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship. This version of the SDS supersedes all previous versions.

End of Safety Data Sheet