

SAFETY DATA SHEET

Based on Regulation (EC) No 1907/2006 (REACH) Article 31 and Annex II

BUDEL ZINK GIPSUM

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Product name : BUDEL ZINK GIPSUM
Synonyms : Budel Zink gypse, Budel Zink gips

REACH Registration number : 01-2119444918-26-0131 (Nyrstar Budel BV)

CAS No. : 7778-18-9
EC index No. : N.A.
EINECS No. : 231-900-3
RTECS No. : N.A.
NFPA code : N.D.
Molecular weight : N.A.
Formula : N.A.

1.2 Use of the substance/preparation:

- Chemical raw material

1.3 Company/undertaking identification:

NYRSTAR Sales & Marketing AG
Tessinerplatz 7
CH-8002 Zürich
Tel: +41 44 745 81 00
Fax: +41 44 745 81 10
e-mail address: infoSDS@nyrstar.com

1.4 Emergency telephone:

+32 14 58 45 45 (24h/24h)
Information centre on dangerous goods (BIG)
Technische Schoolstraat 43A, B-2440 Geel, Belgium

2. Hazards identification

DPD

Not classified as dangerous in compliance with Directive 67/548/EEC and/or Directive 1999/45/EC

CLP (EU-GHS)

Not classified as dangerous in compliance with Regulation (EC) No 1272/2008

3. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS/ELINCS No.	Conc. (%)	DSD classification	CLP classification
calcium sulfate	7778-18-9 231-900-3	70-95	- (2)	-

(1) For R-phrases in full: see heading 16

(2) Substance with a Community workplace exposure limit

(3) PBT-substance

The cadmium content in the gypsum is lower than the current detection limit of 40 ppm.

4. First aid measures

4.1 After inhalation:

- Remove the victim into fresh air
- Respiratory problems: consult a doctor/medical service

4.2 Skin contact:

- Rinse with water
- Soap may be used
- Take victim to a doctor if irritation persists

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- 4.3 Eye contact:**
- Rinse with water
- Take victim to an ophthalmologist if irritation persists
- 4.4 After ingestion:**
- Rinse mouth with water
- Immediately give lots of water to drink
- Consult a doctor/medical service if you feel unwell

5. Fire-fighting measures

- 5.1 Suitable extinguishing media:**
- Non combustible
- For surrounding fires: all extinguishing media allowed
- 5.2 Unsuitable extinguishing media:**
- No data available
- 5.3 Special exposure hazards:**
- On burning: release of toxic and corrosive gases/vapours (sulphur oxides)
- 5.4 Instructions:**
- Dilute toxic gases with water spray
- 5.5 Special protective equipment for firefighters:**
- Heat/fire exposure: compressed air/oxygen apparatus
- Protective clothing

6. Accidental release measures

- 6.1 Personal precautions:**
See heading 8.2
- 6.2 Environmental precautions:**
- Contain released substance, pump into suitable containers
- Plug the leak, cut off the supply
- See heading 13
- 6.3 Methods for cleaning up:**
- Scoop solid spill into closing containers
- Clean contaminated surfaces with an excess of water
- Wash clothing and equipment after handling

7. Handling and storage

- 7.1 Handling:**
- Observe normal hygiene standards
- 7.2 Storage:**
- Keep container tightly closed
- Meet the legal requirements
- Keep away from: heat sources, acids

Storage temperature	: < 50	°C
Quantity limits	: N.D.	kg
Storage life	: N.D.	days
Materials for packaging	:	
- suitable	: no data available	
- to avoid	: no data available	

- 7.3 Specific use(s):**
- See information supplied by the manufacturer for the identified use(s)

8. Exposure controls/Personal protection

8.1 Exposure limit values:

8.1.1 Occupational exposure:

calcium sulfate

TLV-TWA	: 10	mg/m ³		ppm
TLV-STEL	: -	mg/m ³		ppm
TLV-Ceiling	:	mg/m ³		ppm
WEL-LTEL	: 4 R/10 I	mg/m ³	-	ppm
WEL-STEL	: -	mg/m ³	-	ppm
TRGS 900	: 6A	mg/m ³		ppm
MAK	: 1.5 A/4 E	mg/m ³		ppm
GWBNI-TGG 8 h	: 0.5 R	mg/m ³	(indicatief)	
GWKNI-TGG 15 min.	:	mg/m ³		
Ceiling	:	mg/m ³		
VME-8 h	: 10	mg/m ³	-	ppm
VLE-15 min.	: -	mg/m ³	-	ppm
GWBB-8 h	: 10	mg/m ³	-	ppm
GWK-15 min.	: -	mg/m ³	-	ppm
Momentary value	:	mg/m ³		ppm
EC	:	mg/m ³		ppm
EC-STEL	:	mg/m ³		ppm

8.1.2 Sampling methods:

- Sulfites, & Sulfates

NIOSH 6004

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

- Work under local exhaust/ventilation

Personal protective equipment:

a) Respiratory protection:

- Respiratory protection not required in normal conditions

b) Hand protection:

- Gloves

Suitable materials: Nitrile rubber
PVC

- Breakthrough time: >2 h (Nitrile rubber)

c) Eye protection:

- Safety glasses

d) Skin protection:

- Protective clothing

Suitable materials: Nitrile rubber
PVC

8.2.2 Environmental exposure controls: see headings 6.2, 6.3 and 13

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9. Physical and chemical properties

9.1 General information:

Appearance (at 20°C) : Moist solid
Odour : Odourless
Colour : White-brown

9.2 Important health, safety and environmental information:

pH value (at %) : 3/5
Boiling point/boiling range : N.D. °C
Flash point/flammability : N.A. °C
Explosion limits (explosive properties) : N.D. vol%
Oxidising properties : N.D.
Vapour pressure (at 20°C) : < 0.1 hPa
Vapour pressure (at 50°C) : N.D. hPa
Relative density (at 20°C) : N.D.
Water solubility : Insoluble
Soluble in : Glycerol, acids
Relative vapour density : N.D.
Viscosity (at °C) : N.V.T. Pa.s
Partition coefficient n-octanol/water : N.D.
Evaporation rate :
ratio to butyl acetate : N.D.
ratio to ether : N.D.

9.3 Other information:

Melting point/melting range : N.A. °C
Auto-ignition temperature : N.D. °C
Saturation concentration : N.D. g/m³
Specific conductivity : N.D. pS/m

10. Stability and reactivity

10.1 Conditions to avoid:

- No data available

10.2 Materials to avoid:

- Keep away from: heat sources, acids

10.3 Hazardous decomposition products:

- On burning: release of toxic and corrosive gases/vapours (sulphur oxides)

11. Toxicological information

11.1 Acute toxicity:

LD50 oral rat : > 10000 mg/kg
LD50 dermal rat : N.D. mg/kg
LD50 dermal rabbit : N.D. mg/kg
LC50 inhalation rat : N.D. mg/l/4 h
LC50 inhalation rat : N.D. ppm/4 h

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11.2 Chronic toxicity:

calcium sulfate

EC carc. cat. : not listed
EC muta. cat. : not listed
EC repr. cat. : not listed

Carcinogenicity (TLV) : not listed
Carcinogenicity (MAC) : not listed
Carcinogenicity (VME) : not listed
Carcinogenicity (GWBB) : not listed

Carcinogenicity (MAK) : not listed
Mutagenicity (MAK) : not listed
Teratogenicity (MAK) : C

IARC classification : not listed

11.3 Routes of exposure: ingestion, inhalation, eyes and skin

11.4 Acute effects/symptoms:

- **AFTER INHALATION**
- **EXPOSURE TO HIGH CONCENTRATIONS:**
- Coughing
- Irritation of the nasal mucous membranes
- **AFTER EYE CONTACT**
- Slight irritation

11.5 Chronic effects:

- Not listed in carcinogenicity class (IARC, EC, TLV, MAK)
- Not listed in mutagenicity class (EC, MAK)
- Not classified as toxic to reproduction (EC)

12. Ecological information

12.1 Ecotoxicity:

calcium sulfate:

- LC50 (96 h) : 2980 mg/l (LEPOMIS MACROCHIRUS)
- **Effect on waste water purification** : no data available

12.2 Mobility:

- Volatile organic compounds (VOC): N.A. %
- Maximum concentration in drinking water: 250 mg/l (sulfate) (Directive 98/83/EC)
- Insoluble in water
- Substance sinks in water

For other physicochemical properties see heading 9

12.3 Persistence and degradability:

- **biodegradation BOD₅** : N.A. % **ThOD**
- **water** : N.D.
- **soil** : **T ½:** N.D. **days**

12.4 Bioaccumulative potential:

- log P_{ow} : N.D.
- BCF : N.D.

12.5 Results of PBT assessment:

- Not applicable, based on available data.

12.6 Other adverse effects:

- **WGK** : 1 (Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
- **Effect on the ozone layer** : Not dangerous for the ozone layer (1999/45/EC)
- **Greenhouse effect** : No data available

13. Disposal considerations

13.1 Provisions relating to waste:

- Waste material code (75/442/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 17 08 02 (gypsum-based construction materials other than those mentioned in 17 08 01)
- Remove waste in accordance with local and/or national regulations

13.2 Disposal methods:

- Recycle/reuse
- Remove to an authorized dump
- Treat using the best available techniques before discharge into drains or the aquatic environment

13.3 Packaging/Container:

- No available data

14. Transport information

14.1 Classification of the substance in compliance with UN Recommendations

UN number : -
CLASS :
SUB RISKS :
PACKING GROUP :

14.2 ADR (transport by road)

CLASS : Not subject
PACKING GROUP :
CLASSIFICATION CODE :
DANGER LABEL TANKS :
DANGER LABEL PACKAGES :
PROPER SHIPPING NAME :

14.3 RID (transport by rail)

CLASS : Not subject
PACKING GROUP :
CLASSIFICATION CODE :
DANGER LABEL TANKS :
DANGER LABEL PACKAGES :
PROPER SHIPPING NAME :

14.4 ADNR (transport by inland waterways)

CLASS : Not subject
PACKING GROUP :
CLASSIFICATION CODE :
DANGER LABEL TANKS :
DANGER LABEL PACKAGES :

14.5 IMDG (maritime transport)

CLASS : Not subject
SUB RISKS :
PACKING GROUP :
MFAG :
EMS :
MARINE POLLUTANT :

14.6 ICAO (air transport)

CLASS : Not subject
SUB RISKS :
PACKING GROUP :
PACKING INSTRUCTIONS PASSENGER AIRCRAFT :
PACKING INSTRUCTIONS CARGO AIRCRAFT :

14.7 Special precautions

: Not restricted for any mode of international transport

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15. Regulatory information

15.1 DPD legislation:

Not classified as dangerous in compliance with Directive 67/548/EEC and/or Directive 1999/45/EC

15.2 CLP legislation:

Not classified as dangerous in compliance with Regulation (EC) No 1272/2008

15.3 National provisions:

The Netherlands:

Waterbezwaarlijkheid: 11

Germany:

WGK : 1 (Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)

16. Other information

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE
N.D. = NOT DETERMINED
(*) = INTERNAL CLASSIFICATION (NFPA)

PBT-substances = persistent, bioaccumulative and toxic substances

DPD Dangerous Preparation Directive
DSD Dangerous Substance Directive
CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

Exposure limits:

TLV : Threshold Limit Value - ACGIH USA
WEL : Workplace Exposure Limits - United Kingdom
TRGS 900 : Technische Regel für Gefahrstoffe 900 (Arbeitsplatzgrenzwerte) - Germany
MAK : Maximale Arbeitsplatzkonzentrationen - Germany
GWBNL : Grenswaarde voor blootstelling - The Netherlands
GWKNL : Grenswaarde korte duur - The Netherlands
VME : Valeurs limites de Moyenne d'Exposition - France
VLE : Valeurs limites d'Exposition à court terme - France
GWBB : Grenswaarde beroepsmatige blootstelling - Belgium
GWK : Grenswaarde kortstondige blootstelling - Belgium
EC : Indicative occupational exposure limit values

I : Inhalable fraction = T: Total dust = E: Einatembarer Aerosolanteil
R : Respirable fraction = A: Alveolengängiger Aerosolanteil/Alveolar dust
C : Ceiling limit

a:	aerosol	r:	rook/Rauch	(fume)	
d:	damp	(vapour)	st:	stof/Staub	(dust)
du:	dust	ve:	vezel	(fibre)	
fa:	Faser	(fibre)	va:	vapour	
fi:	fibre	om:	oil mist		
fu:	fume	on:	olienevel/Ölnebel	(oil mist)	
p:	poussière	(dust)	part:	particles	

Chronic toxicity:

K : List of the carcinogenic substances and processes - The Netherlands

Full text of any R phrases referred to under headings 2 and 3: N.A.