



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

Printing date 25.04.2021

Version number 3

Revision: 20.07.2020

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

#### - 1.1 Product identifier

- Trade name: **GD 116 NA - Komp.B (art.-no. R034S2-12)**

- Article number: R034S2-12

#### - 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 Hardening agent/ Curing agent

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

##### - Manufacturer/Supplier:

Kömmerling Chemische Fabrik GmbH  
Zweibrücker Straße 200  
D-66954 Pirmasens  
Tel.: +49 (0)6331/56-2000  
www.koe-chemie.de

##### - Informing department:

Abteilung: EU Regulatory Engineering Adhesives  
(department: EU Regulatory Engineering Adhesives)  
E-Mail: msds.koe@hbfuller.com

#### - 1.4 Emergency telephone number:

In case of poisoning:  
GBK-EMTEL International  
Tel.(24h): +49(0)6132/84463 (all languages)

In case of transport accidents:

Tel.(24h): (001) 352 323 3500 (Infotrac - Contract ID: 90373 / GBK)

### SECTION 2: Hazards identification

#### - 2.1 Classification of the substance or mixture

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

Acute Tox. 4	H302	Harmful if swallowed.
Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

- **Additional information:** The classification resulted from the calculation method of CLP-regulation.

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#### - 2.2 Label elements

##### - Labelling according to Regulation (EC) No 1272/2008

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

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**- Hazard pictograms**

GHS07

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

manganese dioxide  
tetraethylthiuramdisulfide  
zinc bis(diethylthiocarbamate)

**- Hazard statements**

H302+H332 Harmful if swallowed or if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

**- Precautionary statements**

P273 Avoid release to the environment.  
P280 Wear protective gloves / eye protection / face protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
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.

**- 2.3 Other hazards****- Results of PBT and vPvB assessment**

- **PBT:** Not applicable.  
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**- 3.2 Chemical characterisation: Mixtures****- Description:** Mixture of several substances**- Dangerous components:**

CAS: 1313-13-9 EINECS: 215-202-6 Reg.nr.: 01-2119452801-43-xxxx	manganese dioxide Acute Tox. 4, H302; Acute Tox. 4, H332	20-<40%
CAS: 97-77-8 EINECS: 202-607-8	tetraethylthiuramdisulfide STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Sens. 1, H317	<2%

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CAS: 1310-73-2 EINECS: 215-185-5 Reg.nr.: 01-2119457892-27-xxxx	sodium hydroxide Skin Corr. 1A, H314; Acute Tox. 4, H302	<2%
CAS: 14324-55-1 EINECS: 238-270-9	zinc bis(diethylthiocarbamate) Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	<1%

- **SVHC** Doesn't contain SVHC > 0,1%.

- **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

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness bring patient into a stable side position for transport.

##### - After skin contact

Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.

- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

- **After swallowing** Call a doctor immediately.

##### - 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

Water spray

Alcohol-resistant foam

Fire-extinguishing powder

Carbon dioxide

Sand

- **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.

##### - 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

Ensure adequate ventilation

- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

- **6.3 Methods and material for containment and cleaning up:** Pick up mechanically.

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**- 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** Use only in well ventilated areas.
- **Information about protection against explosions and fires:**  
No special measures are required when processing in the specified normal way. Keep in mind the product's thermal load when in storage!
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**  
Protect from frost.  
Keep receptacle tightly sealed.  
Protect from heat and direct sunlight.  
Store receptacle in a well ventilated area.  
Store in dry conditions.
- **Storage class (according german VCI-concept):** 12
- **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

- **8.1 Control parameters**
- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:**  
The homogenous mixing of this product is safeguarded by continual physical testing. Raw materials which formerly had dust-like properties are completely incorporated into the liquid / paste-like mass. Subsequently, possible TLVs for solid substances are not given, as there is no more danger of inhaling these substances (when dealing with this mixture)!
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures should be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of the work.  
Immediately remove all soiled and contaminated clothing
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands (DIN EN 420):**  
Direct contact with the chemical preparation must be avoided by organizational measures. Apply skin protectant before working with gloves to avoid skin swellings and use a skin cleansing and skincare product after the work.

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Compliance with the stated penetration time (starts with the first product contact) must be ensured!

The gloves need to be disposed of after the penetration time and new gloves used!

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

If longer exposure to the chemical preparation is necessary, a sturdy overglove against mechanical strain is recommended in combination with the "Barrier 02-100" underglove from Ansell (penetration time 480 min).

**- For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Butyl rubber (0.7mm - penetration time 15 min)

**- As protection from splashes gloves made of the following materials are suitable:**

Recommended for protection from splashes: disposable nitrile gloves (minimum thickness 0.12 mm) with long cuffs. After contact with the chemical preparation, take the disposable nitrile glove off immediately and put on a new disposable nitrile glove.

**- Eye protection:** Safety glasses

**- Body protection:** Use protective suit.

## SECTION 9: Physical and chemical properties

### - 9.1 Information on basic physical and chemical properties

#### - General Information

##### - Appearance:

**Form:** Pasty  
Penetrometer test according ADR 2.3.4.3  
Test result: solid (penetration after 5s < 15mm)

**Colour:** Black

**- Odour:** Characteristic

**- Odour threshold:** Not determined.

#### - Change in condition

**Initial boiling point and boiling range:** undetermined

**- Flash point:** Not applicable

#### - Explosion limits:

**Lower:** Not determined

**Upper:** Not determined

**- Specific gravity:** see Product Information

**- Vapour density:** Not determined.

**- Evaporation rate:** Not determined.

#### - Solubility in / Miscibility with

**Water:** Insoluble

**- Partition coefficient: n-octanol/water:** Not determined.

#### - Solvent content:

**VOC (EU):** 0.0 g/l

**VOC (EU):** 0.00 %

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<b>VOC (CH):</b>	0.00 %
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<b>- 9.2 Other information</b>	No further relevant information available.
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### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.3 Possibility of hazardous reactions**  
Reacts with acids  
Reacts with strong oxidizing agents
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
In case of fire, the following substance(s) may occur:  
Sulphur oxides (SO<sub>x</sub>)

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**  
Harmful if swallowed or if inhaled.

**- LD/LC50 values that are relevant for classification:**

**ATE (Acute Toxicity Estimates)**

Oral	LD50	1360 mg/kg
Inhalative	LC50/4 h	4.29 mg/l

**CAS: 1313-13-9 manganese dioxide**

Oral	LD50	500 mg/kg (ATE)
Inhalative	LC50/4 h	1.5 mg/l (ATE)

**CAS: 97-77-8 tetraethylthiuramdisulfide**

Oral	LD50	500 mg/kg (ATE)
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**CAS: 1310-73-2 sodium hydroxide**

Oral	LD50	2000 mg/kg (rat)
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**CAS: 14324-55-1 zinc bis(diethylthiocarbamate)**

Oral	LD50	500 mg/kg (ATE)
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**CAS: 80-70-6 1,1,3,3-tetramethylguanidine**

Oral	LD50	500 mg/kg (ATE)
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- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.

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**- Additional toxicological information:**

The homogeneous mixing of this product is guaranteed through continuous physical tests. What were formerly dusty raw materials are completely integrated into the liquid/pasty mass. The possible risk "Hazardous on inhalation", caused through formerly dusty raw materials, is therefore excluded in this mixture.

**- CMR effects (carcinogenicity, 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** 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.

### SECTION 12: Ecological information

**- 12.1 Toxicity****- Aquatic toxicity:**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**- 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:**

**- General notes:** Do not allow product to reach ground water, water course or sewage system.

**- 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** Disposal in accordance with official regulations

**- EWC-Code(s):**

To be treated as industrial waste: do not dispose of in or on soil, in watercourses or bodies, or through a sewage system. These EU refuse code numbers are recommendations for waste accruing through the use of adhesives and sealants. Any waste produced from organic solvents or other dangerous substances (according GHS) listed under item 3 of this safety datasheet is itself classified as dangerous (\*).

Waste accruing during application:

080409\* waste adhesives and sealants containing organic solvents or other dangerous substances

080410 waste adhesives and sealants other than those mentioned in 080409

Waste accruing during cleaning:

08 04 11\* adhesive and sealant sludges containing organic solvents or other dangerous substances

08 04 12 adhesive and sealant sludges other than those mentioned in 080411

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**Waste packaging:**

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging

15 01 04 metallic packaging

15 01 10\* packaging containing residues of or contaminated by dangerous substances.

**SECTION 14: Transport information****- 14.1 UN-Number****- ADR/RID/ADN, ADN, IMDG, IATA** Void**- 14.2 UN proper shipping name****- ADR/RID/ADN, ADN, IMDG, IATA** Void**- 14.3 Transport hazard class(es)****- ADR/RID/ADN, ADN, IMDG, IATA****- Class** Void**- 14.4 Packing group****- ADR/RID/ADN, IMDG, IATA** Void**- 14.5 Environmental hazards:****- Marine pollutant:** No**- 14.6 Special precautions for user** Not applicable.**- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.**- UN "Model Regulation":** Void**SECTION 15: Regulatory information****- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****- National regulations****- Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

**- 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.

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 For commercial use only.

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**- Legend of H- and R-phrases, concerning the in chapter 3 mentioned substances (marking of product please see chapter 2)**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

**- Department issuing SDS:**

Abteilung: EU Regulatory Engineering Adhesives

(department: EU Regulatory Engineering Adhesives)

**- 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)

ICAO: International Civil Aviation Organisation

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)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)

VOC: Volatile Organic Compounds (USA, EU)

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

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

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

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

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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

**- \* Data compared to the previous version altered.**