

# Technical product information

## Sodium sulfate, anhydrous

Date: 1. Dezember 2003

updated: 11. April 2018

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NKA

### 1. Identification of the substance and of the company

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#### 1.1. Chemical designation

Sodium sulfate, anhydrous

#### 1.2. Use of the substance

Industrial Uses: Uses in preparation at industrial sites

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

Manufacturer/supplier	Cordenka GmbH & Co. KG
Road/P.O. box	Industrie Center Obernburg
Postcode/place	D – 63784 Obernburg
Information	Telephone +49 6022 81 3262 Telefax +49 6022 81 3260

#### 1.4. Emergency information

**Cordenka GmbH & Co. KG**  
Werk Obernburg (DE)  
Telephone +49 6022 81 3262  
Weekdays: 08.00 h – 16.00 h

### 2. Hazard Identification

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This product is a material in the sense of the chemical law.

Information about dangerous contents

#### 2.1 Chemical description

Sodium sulfate, anhydrous

This substance is not classified as dangerous according to European legislation.

#### 2.2 Labelling

This product is not classified as dangerous substance according to EU regulation (EC) No1272/2008 (CLP regulation)

This product does not need to be labelled in accordance with EC directives and national law (Labelling 67/548/EEC or 1999/45/EC)

#### 2.3 Other Hazards

This product is not classified as dangerous substance according to EU regulation

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### 3. Composition/Information on ingredients

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#### 3.1 Substance

Formular	weight-%	Molar Mass	Chemischer Name
Na <sub>2</sub> SO <sub>4</sub>	99.9	142.04 g/mol	Sodium sulfate

CAS-Number	EINECS -Number	Index-Number	Symbol
7757-82-6	231-820-9	none	

REACH-Registration No.: 01-2119519226-43-0014 (05.11.2010)

### 4. First aid measures

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#### 4.1. Signs and consequences

Dust can affect the respiratory system attractive and cause bronchitis symptoms.

#### 4.2. First aid

##### 4.2.1. General

In all cases of doubt or if the symptoms continue, medical treatment is necessary.

##### 4.2.2. After Inhalation

Inhale fresh air.

##### 4.2.3. After Skin Contact

Remove contaminated clothes. Wash off with water.

##### 4.2.4. After Eye Contact

Rinse with plenty of water. (Remove contact lenses, if worn.)

Only mild to moderate irritation, if eyes are washed immediately.

##### 4.2.5. After Swallowing

Rinse out with water. Drink water after rinsing. Consult doctor if feeling sick.

### 5. Fire-fighting measures

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#### 5.1 Suitable extinguishing media:

All fire extinguishing agents. Sodium Sulfate is not flammable.

#### 5.2 For safety reasons unsuitable fire extinguishing agents:

None

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### 5.3 Special endangerments

Do not inhale fumes.

### 5.4 Dangerous corrosion products and combustion products

In case of fire: emission of toxic steam (SO<sub>x</sub> and Na<sub>2</sub>O).

### 5.5 Protection equipment

In event of fire, wear self-contained breathing apparatus.

## 6. Accidental release measures

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### 6.1 Protective measures

Section 8 informs about the personal protective measures.

### 6.2 Environmental-protection measures

If spilled, collect as much as possible in a clean container for the recycling or disposal.

### 6.3 Procedures for cleaning / absorption

Take up dry. Forward for disposal. Clean up affected area.

### 6.4 Reference to other sections

Protective measures refer to section 7,8,13.

## 7. Handling and storage

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### 7.1 Handling

Usual precautionary measures while handling with chemicals. Local exhaust, when dust is generated.

### 7.2 Fire and explosion prevention

not applicable

### 7.3 Storage

Use: Observe technical data sheet

Temperature: -20°C-+50°C

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Humidity: dry, avoid humidity

Usage: before 6 months

### 8. Exposure controls / personal protection

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#### 8.1 Technical preventive measures

Avoid inhalation of dust

#### 8.2 Personal protection equipment

##### 8.2.1 Respiratory organs

During dust formation carry a dust respirator (respirator with filter P1)

##### 8.2.2 Hands

Gloves according to EU directive 89/686/EWG:

Type KCL / type KCL Tricotril Art.Nr. 736, Nitrile/Cotton, Thickness: 1,5 mm, break through time: 480 min.

Lapren Art.Nr. 706: ,Natural Latex/Chloroprene, Thickness: 0.6 mm, break through time: 480 min.

##### 8.2.3 Eyes

Safety glasses

##### 8.2.4 Skin and body

Not relevant

### 9. Physical and chemical properties

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9.1	<b>Look</b>	crystalline powder
9.2	<b>Color</b>	white
9.3	<b>Smell</b>	smellless
7.1	<b>Boiling point</b>	> 1700°C
7.2	<b>Melting point</b>	884°C
9.4	<b>Flash point</b>	not applicable
9.5	<b>Inflammability</b>	not applicable
9.6	<b>Self inflammability temperature</b>	not applicable
9.7	<b>Danger of explosion</b>	not applicable
9.8	<b>Explosion limits</b>	not applicable
9.9	<b>Fire-promoting characteristics</b>	not applicable

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9.10	<b>Steam pressure</b>	not applicable
9.11	<b>Density</b>	2680 kg/m <sup>3</sup>
9.12	<b>Bulk density</b>	1300 – 1600 kg/m <sup>3</sup>
9.13	<b>Solubility in water</b>	185 g/l (20°C) 460 g/l (50°C)
9.14	<b>Solubility in other solvents</b>	soluble in glycerin
9.15	<b>pH-value</b>	4 – 6 (with 110g/l water and 18°C)
9.16	<b>Distribution coefficient</b> n-Oktanöl/water	log Pow = -3,0 (berechnet)
9.17	<b>Relativ steam density (air = 1)</b>	not applicable
9.18	<b>Viscosity</b>	not relevant

### 10. Stability and reactivity

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10.1	<b>Stability</b>	Stable with the recommended camp and handling conditions (see section 7).
10.2	<b>Conditions to be avoided</b> SO <sub>2</sub> and Na <sub>2</sub> O	Temperatures higher than 890 °C (decomposition and formation of
10.3	<b>Substances to be avoided</b>	No information avialable
10.4	<b>Hazardous decompositon products</b>	In case of fire: emission of toxic steam (SO <sub>x</sub> and Na <sub>2</sub> O)

### 11. Toxicological information

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11.1	<b>Name</b>	Sodium sulfate
11.2	<b>Acutes toxicity</b> Oral LD50	mouse: 6346 mg/kg
11.3	<b>Irritation</b>	
	11.3.1 <b>Skin</b>	no
	11.3.2 <b>Eyes</b>	weakly
	11.3.3 <b>Gene toxicity</b>	not mutagen
11.4	<b>Other toxicological information</b>	not teratogen

### 12. Ecological information

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12.1	<b>Name</b>	Sodium sulfate
12.2	<b>Ecotoxic effect</b>	
	12.2.1 <b>Fish</b>	acute toxicity, 96h-LC50 → 120 mg/l
	12.2.2 <b>Daphnia</b>	acute toxicity, 48h-EC50: 2564 mg/l

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### 13. Disposal considerations

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- 13.1 **Product** According to the local regulations.  
key number: OENORM 51517, European Waste Catalogue: EAK 060314
- 13.2 **Packaging** According to the local regulations. Only clean packaging can be returned into recycling process.
- 13.3 **Other information** For further information contact producer

### 14. Transport information

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- 14.1 **Land transport (ADR/RID)**
- |                        |                |              |              |
|------------------------|----------------|--------------|--------------|
| ADR/GGVS-class         | not restricted | number       | not relevant |
| RID/GGVE-class         | not restricted | number       | not relevant |
| Gefahr-Nr.             | not relevant   | material-Nr. | not relevant |
| TREM-Karte             | not relevant   | UN-Nr.       | none         |
| Correct technical name | not relevant   |              |              |
- 14.2 **Vessel transport (IMO/IMDG-Code)**
- |                        |                |            |                |
|------------------------|----------------|------------|----------------|
| IMO/IMDG-Code          | not restricted | class      | not restricted |
| Group of packing       | not relevant   | UN-Nr.     | none           |
| EMS-Nr.                | not relevant   | MFAG-Tafel | not relevant   |
| Sea getting dirty      | no             |            |                |
| Correct technical name | not relevant   |            |                |
- 14.3 **Air transport (ICAO-TI/IATA-DGR)**
- |                        |                |                  |              |
|------------------------|----------------|------------------|--------------|
| ICAO-TI/IATA-DGR       |                | UN-Nr.           | none         |
| class                  | not restricted | Group of packing | not relevant |
| Correct technical name | not relevant   |                  |              |
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### 15. Regulatory information

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15.1 Labelling according to EC Directives

### 16. Other information

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Cordenka Sodium Sulfate is designed and produced for applications in the glass, cement, coatings, chemical and detergent industry, and is sold for use in such applications.

Cordenka Sodium Sulfate is safe to use as an additive for certain foods, in accordance with all applicable regulations for food as well as feedstuff.

In addition, it may be used in the manufacture of pharmaceutical products in accordance with all applicable provisions.

Cordenka Sodium Sulfate is not produced under GMP conditions.

The customer assumes sole responsibility for the use of products purchased for use in these sectors. Exceptions shall be governed by separate product specifications and individual agreements.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

It concerns with sodium sulfate, according to the Regulation (EC) No 1907/2006 (REACH), Article 31 and Regulation (EC) No 1272/2008 (CLP / GHS) to a non-hazardous substance for which no MSDS is required . The duty, to provide downstream users in the supply chain with information according to (EC) No 1907/2006 Article 32, shall be met by the present technical product information.

The information is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

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