



SAFETY DATA SHEET

Calcium Chloride Anhydrous (94 - 98%)

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

1.1. Product identifier

| | |
|-----------------|---------------------------------------|
| Product name | Calcium Chloride Anhydrous (94 - 98%) |
| CAS number | 10043-52-4 |
| EU index number | 017-013-00-2 |
| EC number | 233-140-8 |

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

| | |
|----------------------|---------------------------|
| Identified uses | Chemicals for synthesis |
| Uses advised against | No information available. |

1.3. Details of the supplier of the safety data sheet

| | |
|--------------|--|
| Manufacturer | Jubail Chemical Industries Company (JANA) P.O.BOX - 11919 Jubail Industrial City - 31961 Saudi Arabia Tel. +966 13 3478888 ext 351 Fax. +966 13 3476705 safety@nama.com.sa |
|--------------|--|

| | |
|---|--|
| Only Representative REACH 1907/2006/EC Article 8 | NAMA Germany Teichstrasse 38 D-79539 Lörrach Tel. + 49 762 1940 5410 Fax. + 49 762 1940 5420 |
|---|--|

1.4. Emergency telephone number

| | |
|---------------------|---|
| Emergency telephone | Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463 |
|---------------------|---|

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

| | |
|-----------------------|---|
| Physical hazards | Not Classified |
| Health hazards | Acute Tox. 4 - H302 Eye Irrit. 2 - H319 |
| Environmental hazards | Not Classified |

2.2. Label elements

| | |
|-----------|-----------|
| EC number | 233-140-8 |
|-----------|-----------|

Hazard pictograms



Calcium Chloride Anhydrous (94 - 98%)

| | |
|---------------------------------|--|
| Signal word | Warning |
| Hazard statements | H302 Harmful if swallowed. H319 Causes serious eye irritation. |
| Precautionary statements | P264 Wash contaminated skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. 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. P501 Dispose of contents/ container in accordance with national regulations. |

2.3. Other hazards

| | |
|--|-----------------|
| Results of PBT and vPvB assessment: | Not applicable. |
|--|-----------------|

SECTION 3: Composition/information on ingredients

3.1. Substances

| | |
|------------------------|---------------------------------------|
| Product name | Calcium Chloride Anhydrous (94 - 98%) |
| EU index number | 017-013-00-2 |
| CAS number | 10043-52-4 |
| EC number | 233-140-8 |

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|----------------------------|--|
| General information | Promptly remove any clothing that becomes contaminated. |
| Inhalation | IF INHALED: Get medical attention if any discomfort continues. Remove person to fresh air and keep comfortable for breathing. |
| Ingestion | IF SWALLOWED: Get medical attention immediately. Rinse mouth thoroughly with water. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. |
| Skin contact | IF ON SKIN: Not irritating. Rinse immediately with plenty of water. |
| Eye contact | IF IN EYES: Rinse cautiously with water for several minutes. Remove any contact lenses and open eyelids wide apart. Get medical attention if symptoms are severe or persist after washing. |

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

| | |
|----------------------------|---------------------------|
| General information | No information available. |
|----------------------------|---------------------------|

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

| | |
|-----------------------------|---------------------------|
| Notes for the doctor | No information available. |
|-----------------------------|---------------------------|

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|-------------------------------------|---|
| Suitable extinguishing media | Use fire-extinguishing media suitable for the surrounding fire. |
|-------------------------------------|---|

5.2. Special hazards arising from the substance or mixture

| | |
|-------------------------|---------------------------|
| Specific hazards | No information available. |
|-------------------------|---------------------------|

5.3. Advice for firefighters

Calcium Chloride Anhydrous (94 - 98%)

Special protective equipment for firefighters Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions No information required.

6.2. Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar. Clean contaminated objects and areas thoroughly, observing environmental regulations.

6.4. Reference to other sections

Reference to other sections Follow precautions for safe handling described in this safety data sheet. For personal protection, see Section 8. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid handling which leads to dust formation.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry and cool place. The substance is hygroscopic and will absorb water by contact with the moisture in the air.

7.3. Specific end use(s)

Specific end use(s) No information available.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

8.2. Exposure controls

Protective equipment



Personal protection

Keep away from food, drink and animal feeding stuffs. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Avoid contact with skin and eyes.

Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield.

Hand protection

Wear protective gloves. For users with sensitive skin, it is recommended that suitable protective gloves are worn. It is recommended that gloves are made of the following material: Nitrile rubber. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.

Other skin and body protection

Wear protective clothing.

Calcium Chloride Anhydrous (94 - 98%)

Hygiene measures Keep away from food, drink and animal feeding stuffs. Wash hands thoroughly after handling. Avoid contact with skin, eyes and clothing. Use appropriate skin cream to prevent drying of skin.

Respiratory protection Respiratory protection may be required if excessive airborne contamination occurs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|-------------------------------|
| Appearance | Solid. |
| Colour | White. |
| Odour | Odourless. |
| pH | Not applicable. |
| Melting point | 782°C |
| Initial boiling point and range | >1,600 °C (DIN 51751) |
| Flash point | Not applicable. |
| Flammability (solid, gas) | The product is not flammable. |
| Upper/lower flammability or explosive limits | No information available. |
| Vapour pressure | Not applicable. |
| Density | 2.15 g/cm ³ @20°C |
| Solubility(ies) | 740 g/l @20 |
| Partition coefficient | Not determined. |
| Viscosity | Not applicable. |
| Organic solvents | 0.0% |
| VOC (EC) | 0.00% |
| VOC (CH) | 0,00% |
| Solid content | 100% |

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Thermal decomposition / conditions to be avoided Does not decompose when used and stored as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid No information available.

10.5. Incompatible materials

Calcium Chloride Anhydrous (94 - 98%)

Materials to avoid Zinc. Water. Vinylmethylether, Bortrifluoride

10.6. Hazardous decomposition products

Hazardous decomposition products No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Harmful if swallowed.

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 1000 mg/kg, Oral, Rat

ATE oral (mg/kg) 500.0

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Ingestion Gastrointestinal symptoms, including upset stomach.

Skin contact Causes skin irritation.

Eye contact May cause eye irritation.

SECTION 12: Ecological information

General Notes Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Avoid the spillage or runoff entering drains, sewers or watercourses.

12.1. Toxicity

Toxicity No information available.

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Calcium Chloride Anhydrous (94 - 98%)

Bioaccumulative potential No information available.

Partition coefficient Not determined.

12.4. Mobility in soil

Mobility No information available.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste product or used containers in accordance with local regulations Dispose of waste via a licensed waste disposal contractor. Control run-off water by containing and keeping it out of sewers and watercourses.

European waste catalogue: 06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

SECTION 14: Transport information

General Void.

14.1. UN number

UN No. (ADR/RID) Void

UN No. (IMDG) Void

UN No. (ICAO) Void

14.2. UN proper shipping name

Proper shipping name (ADR/RID) Void

Proper shipping name (IMDG) Void

Proper shipping name (ICAO) Void

14.3. Transport hazard class(es)

ADR/RID class Void

IMDG class Void

ICAO class/division Void

ADN class Void

14.4. Packing group

ADR/RID packing group Void

IMDG packing group Void

ICAO packing group Void

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Calcium Chloride Anhydrous (94 - 98%)

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

ADR and IMDG:

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association"(IATA).
 ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
 ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 IMDG: International Maritime Dangerous Goods.
 IATA: International Air Transport Association.
 GHS: Globally Harmonized System.
 EINECS: European Inventory of Existing Commercial and Chemical Substances
 CAS: Chemical Abstracts Service.
 VOCV: Lengkungsabgabe auf fluchtingen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)
 VOC: Volatile Organic Compounds (USA,EU)
 LC₅₀: Lethal Concentration to 50 % of a test population.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 PBT: Persistent, Bioaccumulative and Toxic substance.
 vPvB: Very Persistent and Very Bioaccumulative.
 Acute Tox. 4 - H302
 Eye Irrit. 2A - H319
 WGK: German Water Hazard Class.

Revision date 01/11/2018

Revision 01

Supersedes date 05/07/2018

SDS number 4646

Hazard statements in full H302 Harmful if swallowed.
H319 Causes serious eye irritation.

Calcium Chloride Anhydrous (94 - 98%)

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.