



SAFETY DATA SHEET

Calcium Chloride Solution 35%

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

1.1. Product identifier

Product name	Calcium Chloride Solution 35%
ECHA Reference	CAS 10043-52-4 (Aqueous Solution)
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	Construction, drilling muds, deicing
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
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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
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1.4. Emergency telephone number

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



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 CENTER/ 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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

calcium chloride	30-60%
CAS number: 10043-52-4	EC number: 233-140-8
Classification	
Eye Irrit. 2 - H319	

The full text for all hazard statements is displayed in Section 16.

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 The product is not flammable.

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5.2. Special hazards arising from the substance or mixture

Specific hazards No information available.

5.3. Advice for firefighters

Special protective equipment for firefighters No information available.

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 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 contact with skin, eyes and clothing. Wash at the end of each work shift and before eating, smoking and using the toilet. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Do not allow contact with Methyl vinyl products (possibly causing runaway polymerization)

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container.

7.3. Specific end use(s)

Specific end use(s) No information available.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

No exposure limits known for ingredient(s).

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.

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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.
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	Liquid.
Colour	Clear.
Odour	Odourless.
pH	Not applicable.
Melting point	15°C
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.
Organic solvents	0.0%
VOC (EC)	0.00%
VOC (CH)	0,00%
Solid content	35%

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No information available.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No potentially hazardous reactions known.
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10.4. Conditions to avoid

Conditions to avoid	No information available.
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10.5. Incompatible materials

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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

Bioaccumulative potential No information available.

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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

UN No. (ADN) Void

14.2. UN proper shipping name

Proper shipping name (ADR/RID) Void

Proper shipping name (IMDG) Void

Proper shipping name (ICAO) Void

Proper shipping name (ADN) 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

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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

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-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
 ICAO-TI: 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

Revision date 01/11/2018

Revision 01

Supersedes date 01/07/2018

SDS number 4594

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

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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.