



**Calcium chloride 33%**

**1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY**

**Identification of the product**


- Trade name : Calcium chloride 33%
- Nature of the product : Liquid substance.
- Use of the product : Various industrial applications.
- Identification of the company : See Safety Data Sheet footer
- Emergency telephone number: : See Safety Data Sheet footer

**2. HAZARDS IDENTIFICATION**

- R-phrases : Irritating to eyes
- Symptoms
- Inhalation : None
- Contact with the skin : No serious danger when used in normal conditions
- Contact with eyes : Redness, pain. Can cause eye irritation
- Ingestion : No serious danger when ingested in normal conditions

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

This product is considered hazardous and contains hazardous components

Name of component(s)	Weight (in %)	CAS No / EC No / EC Annex No	Pictogram(s)	R-phrase(s)
Calcium chloride	32-34 %	10043-52-4 / 233-140-8/ 017-013-00-2	Xi 	R36: irritating to eyes  (H319: causes serious eye irritation)
Water	To 100%	7732-18-5 / 231-791-2 / ----		

**4. FIRST AID MEASURES**

General : In case of any doubt or if symptoms persist, always call a doctor. Never give anything by mouth to an unconscious person.

**First aid measures in the event of:**

- Inhalation : Move the victim to fresh air.
- Skin contact : Remove contaminated clothing. Rinse the skin immediately with soft soap and water, then rinse with copious amounts of hot water.

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**4. FIRST AID MEASURES (cont.)**

- Eye contact : Rinse thoroughly with copious amounts of water for a long time (at least 15 minutes).  
Remove any contact lenses.  
If pain, blinking, tears and/or irritation of the eyes persist consult a doctor/ ophthalmologist.
- Ingestion : Rinse the mouth with water  
Seek medical advice when feeling unwell (if possible, show the label of this product).

**5. FIRE-FIGHTING MEASURES**

Category : Not combustible

**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions : Walk carefully over the released product
- Clean-up methods : Dilute the remnants with plenty of water .Collect the spilt product with an absorbing product as soon as possible and put it in suitable waste containers.

**7. HANDLING AND STORAGE**

- Handling : No special precautions recommended for the handling and the storage of this product
- Storage conditions : Only store in the original, tightly closed container, in a cool and well-ventilated, dry location. Storage temperature: > 10°C.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Personal protective equipment**

- Inhalation protection : Not necessary
- Hand protection : Wear gloves when the product is used repeatedly/ for a long time
- Eye protection : Chemical goggles.
- Skin protection : Suitable protective clothing.
- Ingestion protection : Do not eat, drink and/or smoke while using the product

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	:	Liquid
Appearance/Colour	:	Colourless
Odour	:	Odourless.
pH-value	:	Acidity 0,5 - 1,5 (titration with 0,1M NaOH)
Boiling point	:	110 °C
Melting point	:	-20 °C
Solubility in water	:	Completely
Relative density	:	1.320-1.340

**10. STABILITY AND REACTIVITY**

Hazardous decomposition products	:	On exposure to high temperature, may decompose, releasing toxic vapors. Decomposes above 175 °C
Substances to avoid	:	Metals
Conditions to avoid	:	Freezing < -10 °C

**11. TOXICOLOGICAL INFORMATION**

Acute toxicity	:	Can cause irritation of the mouth, throat, stomach and intestinal tract. oral LD50 (mg/kg) (rat) > 2000
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**12. ECOLOGICAL INFORMATION**

Information on ecological effects	:	This product contains no hazardous substances for the aquatic environment.
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**13. INSTRUCTIONS FOR DISPOSAL**

Product disposal	:	The residues of the product can be flushed away with water. The product should be disposed of in accordance with national and local laws.
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**14. TRANSPORT INFORMATION**

General information	:	Not classified
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**15. INFORMATION REQUIRED BY LAW**

Symbols : Irritating



R-phrases : R36: irritating to eyes

H319: causes serious eye irritation

S-phrases : S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

P305+351+338: 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

P280: wear protective gloves/ protective clothing / eye protection / face protection

**16. OTHER INFORMATION**

This Safety Data Sheet has been compiled in accordance with EC Regulation No 1907/2006.  
This Safety Data Sheet is only intended for industrial / professional use.

The information provided here was full and correct to the best of our knowledge on the date of issue of this Safety Data Sheet. The information only relates to the product specified and does not guarantee the quality and the completeness of the properties of the product, or in the event of the product being used together with other products or in any other process. It remains the responsibility of the user to ensure that the information is applicable and complete for the specific use that the user in question is making of the product.

Brouwland cannot accept responsibility for any loss or damage ensuing from the use of this data.

**End of document****Brouwland**

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