
SAFETY DATA SHEET

1 Identification of the substance or preparation and the supplier

Product Name: **REAGENT "B"**
 Datasheet Number: 555862 1.0.0
 Use of the substance/preparation: Reagent
 Product Part Number: 555862 (50 x 0.5 g)
 Name of Supplier: Unitor ASA
 Address of Supplier: Willem Barentszstraat 50
 3165 AB Rotterdam-Albrandswaard, The Netherlands

 Telephone: +31 10 4877 777
 Fax: +31 10 4877 888
 Responsible Person: Leen de Visser, Corporate Product Safety Manager, Tel.: +31 6 538 63736
 Name of Manufacturer: Unitor Chemicals AS
 Address of Manufacturer: P.O.Box 15
 N-3141 Kjølmannskjær
 Norway
 Telephone: +47 333 515 00
 Emergency Telephone: NCEC: +44 1865 407333, CHEMTREC (800) 424 9300
 CMA +1 703 527 3887, Greece +30 210 7793777

2 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases	Symbols
Calcium hydride	>95	7789-78-8	232-189-2	15	F

3 Hazards identification

- Odour: Odourless
- Appearance: powder, crystals, light, grey, reacts violently with water
- Contact with eyes: Can cause damage to the eyes
- Contact with skin: May cause redness and irritation
- Inhalation: Inhalation may cause severe irritation and, dependent on dose, chemical burns.
- Ingestion: Not regarded as a potential route of exposure., In cases of severe exposure, gastro-intestinal disturbances may develop



Highly Flammable

4 First aid measures

Contact with skin

- Remove contaminated clothing immediately and drench affected skin with plenty of water
- Contaminated clothing should be laundered before reuse
- When in doubt or symptoms persist, seek medical attention

Contact with eyes

- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Seek medical attention if irritation persists

4 First aid measures (....)

Ingestion

- Do not induce vomiting
- Give 200-300mls (half pint) water to drink
- Obtain immediate medical attention

Inhalation

- Inhalation is unlikely to occur
- Remove patient to fresh air
- When in doubt or symptoms persist, seek medical attention

General

- If you feel unwell, seek medical advice (show the label where possible) (S44)
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5 Fire-fighting measures

- Flammable solid
 - Contact with water liberates extremely flammable gases (R15)
 - In case of fire use carbon dioxide or dry agent (S43)
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6 Accidental release measures

Personal Precautions

- Wear protective clothing as per section 8
- Contact with water liberates highly flammable gas
- Do not smoke

Environmental Precautions

- Do not empty into drains (S29)

Clean Up Actions

- Sweep or shovel-up spillage and remove to a safe place
 - Flush spill area with copious amounts of water
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7 Handling and storage

Handling

- Wash thoroughly after use
- Do not allow dust to accumulate on surfaces and equipment

Storage

- Keep in a cool, dry place
 - Protect from moisture
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8 Exposure controls and personal protection

Exposure Limits

- No exposure limits have been set for this substance

Exposure controls

- No special precautions are required for this product

Occupational exposure controls

- Wear plastic or rubber gloves

8 Exposure controls and personal protection (....)



9 Physical and chemical properties

- Odour: Odourless
- Appearance: powder, crystals, light, grey, reacts violently with water
- pH - not applicable
- Melting point 675 deg C with decomposition
- Decomposes in water
- Density (water=1)1.7
- Flammable solid

10 Stability and reactivity

- Reacts with water
- Keep away from moist air or water, Keep away from strong oxidizing substances(S14), Avoid contact with acid
- Incompatible with oxidizing substances, Incompatible with acid, Contact with water liberates extremely flammable gases (R15)

11 Toxicological information

Inhalation

- In cases of severe exposure, pulmonary oedema may develop
- May cause irritation

Contact with skin

- Prolonged skin or eye contact may cause chemical burns

Contact with eyes

- Prolonged skin or eye contact may cause chemical burns

Ingestion

- Not regarded as a potential route of exposure.
- May cause diarrhoea
- May cause gastro-intestinal disturbances

Carcinogenicity

- No evidence of carcinogenic effects

12 Ecological information

Ecotoxicity

- This product does not contain ingredients which are classified in the EU as dangerous for the environment.

Mobility

- Decomposes in water

Persistence and Biodegradability

- Its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable.

Bioaccumulation Potential

- Bioaccumulation is insignificant

12 Ecological information (....)

Other Adverse Effects

- No environmental problems are expected when the product is used / handled correctly.

13 Disposal considerations

Disposal considerations

- Disposal should be in accordance with local, state or national legislation

14 Transport information

Dangerous When Wet

UN

Proper Shipping Name:	Calciumhydride	UN No.:	1404
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Hazard Class:	4.3	Packing Group:	I
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Road/Rail (ADR/RID)

Proper Shipping Name:	Calciumhydride	ADR UN No.:	1404
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ADR Hazard Class:	4.3	Tremcard:	43GW2-I
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Sea (IMDG)

Proper Shipping Name:	Calciumhydride	IMDG UN No.:	1404
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IMDG Hazard Class.:	4.3	IMDG Pack Group.:	I
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IMDG EmS:	4.3-04	IMDG subrisk:	N/A
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IMDG labels:	4	IMDG Flashpoint:	N/A
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Air (ICAO/IATA)

Proper Shipping Name:	Calciumhydride	ICAO Un No.:	1404
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ICAO Hazard Class.:	4.3	ICAO Packing Group.:	I
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ICAO subrisk:	N/A	ICAO Labels:	4 + CAO
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ICAO Flashpoint:	N/A		
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DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name:	Calciumhydride	Hazardous Material:	Calciumhydride
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Hazard Class:	4.3	Identification Number:	UN 1404
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Product RQ (lbs):	N/A	DOT subrisk:	N/A
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DOT labels:	4	DOT Flashpoint:	N/A
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14 Transport information (....)

15 Regulatory information



Highly Flammable

Risk Phrases

- Contact with water liberates extremely flammable gases (R15)

Safety Phrases

- Keep container tightly closed and dry (S7/8)
 - Avoid contact with skin and eyes (S24/25)
 - In case of fire use carbon dioxide or dry agent (S43)
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16 Other information

(R15: Contact with water liberates extremely flammable gases.)

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)

This Safety Data Sheet is provided in compliance with The Dangerous Preparations Directive (88/379/EEC)

This Safety Data Sheet is provided in compliance with The Safety Data Sheets Directive (2001/58EC)