



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : C 10529
Product Name : CALCIUM CHLORIDE DIHYDRATE

Manufacturer/supplier identification

Company : NICE Chemicals (P) Ltd., Cochin, India
Tel - 0484 2800212, 2802755

Contact for information : Tel. No.- 0484 2802536 Fax : 0484 2802483
Emergency Telephone No. : 0484 2801583 Telefax No. : 0484 2802483

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Lime, Caustic; Quicklime
CAS-No : 10035-04-8
Ec-Index No. : 017-013-00-2
Molar Mass : 147.02
EC-No. : 233-140-8
Molecular Formula : $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$

3. HAZARDS INDEX : Irritating to eyes.

4. FIRST AID MEASURES

After swallowing : Consult doctor if feeling unwell.

After inhalation : Fresh air.

After skin contact : Wash off with plenty of water. Remove contaminated clothing.



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After eye contact : Rinse out with plenty of water with the eyelid held
wide open. Summon eye specialist.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : In adaption to materials stored in the
immediate neighbourhood.

Special risks :

Development of hazardous combustion gases or vapours possible in the event
of fire.

The following may develop in event of fire : hydrochloric acid, chlorine.

Special protective equipment for fire fighting : Do not stay in dangerous zone
without suitable chemical protection clothing and self contaminated breathing apparatus.

Other information: Non-combustible. Contain escaping vapours with water.

Prevent fire-fighting water from entering surface water or groundwater.

6. ACCIDENTAL RELEASE MEASURES

Person related precautionary measures : Avoid generation of dusts; do not inhale
dusts. Avoid substance contact.

Procedures for cleaning/absorption : Take up dry. Forward for disposal.
Clean up affected area.



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7. HANDLING AND STORAGE

Handling : No further requirements.
Storage : Tightly closed. Dry.
Storage temperature : No restrictions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection : Required when dusts are generated.

Eye Protection : Required

Hand Protection : Required

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing chemicals should be ascertained with the respective supplier.

Industrial hygiene : Change contaminated clothing. Application of skin-protective barrier cream recommended. Wash hands after working with substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Solid
Colour : White
Odour : Odourless
pH value at 100 g/l H₂O (20° C) : ~4.5 - 6.5
Melting temperature : ~176° C
Boiling temperature : Not available
Ignition temperature : Not available
Flash Point : Not applicable



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Explosion limit lower : Not available
 upper : Not available
Relative vapour density : Not available
Density (20° C) : 1.85 g/cm³
Solubility in Water (0° C) : ~1000 g/l
 Ethanol (25° C) : Soluble

10. STABILITY & REACTIVITY

Conditions to be avoided : Moisture.

Substances to be avoided : Vinylmethyl ether

Hazardous decomposition products : In the event of
fire : Hydrochloric Acid, Chlorine.

Further Information : Hygroscopic

11. TOXICOLOGICAL INFORMATION

Acute toxicity : LD₅₀ (oral,rat) : 1000 mg/kg(unhydrous substance).

Further toxicological information :

After inhalation of dust : Irritation symptoms in the respiratory tract.

After skin contact : Local irritation symptoms.

After eye contact : Irritations.

After swallowing of large amounts : gastrointestinal complaints.



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Further data : The product should be handled with the care usual when dealing with chemicals.

12. ECOLOGICAL INFORMATION

Ecotoxic effects : Increase the hardness of water. A harmful effect of aquatic organisms is only to be expected at high concentrations.

13. DISPOSAL METHOD

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the later is regulated in the EC member countries through corresponding laws & regulations. We recommend that you contact either the authorities in-charge/approved waste disposal companies which will advise you on how to dispose of special waste.

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. TRANSPORT INFORMATION : Not subject to transport regulations.



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15. REGULATORY INFORMATION :

Labelling according to EC Directives

Symbol : Xi Irritant

R-phrases : 36 Irritating to eyes

S-phrases : 22-24 Do not breathe dust. Avoid contact with skin.

EC-No. : 233-140-8 Ec label

Water pollution class : 0 (generally nonpolluting substance)

16. OTHER INFORMATION :

Reason for alteration

General update.

The information contained herein is based on the present state of our knowledge.

It characterises the product with regard to the appropriate safety precautions.

It does not represent a guarantee of the properties of the product.
