

# CALCIUM CARBONATE

## 1. CHEMICAL IDENTITY

Chemical Name	Calcium Carbonate	Chemical Classification	Inorganic Compound
Synonyms	Calcite	Trade Name	-
Formula	CaCO <sub>3</sub>	C.A.S. No.	471-34-1
		U.N. No.	-

Regulated Identification :

Shipping Name	Calcium Carbonate	Hazchem Code No.	-
Codes/Label	-		
Hazardous waste I.D. No. :	16		
Hazardous ingredients	C.A.S. No.		
1. Calcium Carbonate	471-34-1		

## 2. PHYSICAL AND CHEMICAL DATA

Boiling Range/point degreeC :	Decomposes before boiling	Physical State :	Appearance : White Powder
Melting/Freezing Point degree C :	1339 (at 102.5 atm)	Solid.	Odour : Odourless
Vapour Pressure at 35 degree C :	N A		
Vapour Density : N. A.	Solubility in water at 30 degree C :	0.014 Kg/m <sup>3</sup>	Others : -
Specific Gravity : 2.71	pH : 8 to 9 in water		
Water = 1			

## 3. FIRE AND EXPLOSION HAZARD DATA

Flammability : No	Non Flammable	Flash Point degree C : (OC)	Not Pertinent	Autoignition degree C temperature : -
TDG Flammability : N.A.		Flash Point degree C : (OC)	Not Pertinent	
Explosion Impact	Sensitivity to Stable	Explosion Sensitivity to Static Electricity	N.A.	Hazardous Combustion Products : Calcium Oxide, Oxides of carbon.
Hazardous Polymerisation	Will not occur.			
Combustible liquid : No.	Explosive Material : No	Corrosive Material	Yes	
Combustible gas. : No.				
Flammable Material : No.	Oxidiser : No	Others	---	
Pyrophoric Material : No	Organic Peroxide	No.		

## 4. REACTIVITY DATA

Chemical Stability	Stable under normal conditions.
Incompatibility with other material	Acids, Alum, Ammonium Salts & Flourine. Reacts violently with F <sub>2</sub> Flourine
Reactivity	( Mg + H <sub>2</sub> ) As above.

Hazardous Reaction Products      Calcium Oxides and Oxides of Carbon

## 5. HEALTH HAZARDS DATA

Routes of Entry	Inhalation, Skin, Eyes & Ingestion.			
Effects of Exposure/Symptoms	Dust may cause irritation by abrasion, and may have a drying effect upon the skin.			
SKIN	Dust may cause slight transient irritation			
EYE	Repeated doses may cause Constipation.			
INGESTION	Exposure to dust at high concentrations may have the following effects : Irritation of Nose, throat and respiratory tract.			
INHALATION	--.			
SPECIAL TOXIC EFFECTS	--			
Emergency Treatment	--			
TLV (ACGIH) (Dust respirable)	-	5 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>	STEL :-	
Dust total Inhalable Permissible Exposure Limit	-	-	Odour Threshold	
LD -	-	IDLH	-	
NFPA Hazard Signals	Health	Flammability	Reactivity	Special
	-	-	----	--

## 6. PREVENTIVE MEASURES

Personal Protective Equipment	Dust Mask should be worn while working with the material. EYE PROTECTION : Dust tight Goggles. SKIN PROTECTION : Protective suit.
Handling and Storage Precautions	Use local exhaust ventilation, If conditions are dusty. Store away from Acids, Water, etc.

## 7. EMERGENCY AND FIRST AID MEASURE

FIRE	FIRE MEDIA	EXTINGUISHING	Not Combustible. Select extinguishing agent appropriate to other materials involved.
FIRE	Special Procedures		--
	Unusual Hazards		--
EXPOSURE	First Aid Measures		SKIN : Wash Skin with soap & water. EYE : Wash out eyes with plenty of water INHALATION : Remove from exposure
	Antidotes/Dosages		-----
Notes to Physician	Treat symptomatically		
SPILLS	Steps to be taken		Transfer into suitable container for recovery or disposable.
	Waste disposal Method		This chemical occur naturally and widely in nature. Landfill Method should be used for disposal

## 8. ADDITIONAL INFORMATION / REFERENCES :

ACUTE TOXICITY : Calcium carbonate is used as a non-absorbable antacid, but high doses may be absorbed and at the same time reduce magnesium absorption. After a single 4 g dose in normal subject there is a transient increase in plasma calcium concentration, but hypercalcaemia is more persistent after a dose of 8 g.

Dose-related constipation is commonly noted when 20-40 g calcium carbonate is taken daily, and haemorrhoids may occur.

During chronic administration of calcium carbonate, hypophosphataemia may result if phosphate intake is low.

IRRITANCY EYES : Single application to the rabbit eye produced minimal conjunctival irritation.

## 9. MANUFACTURE / SUPPLIERS DATA

Name of Firm  
Mailing Address

Contact Person in  
Emergency

**M/S GNFC Ltd.**  
**P.O. Narmadanagar,**  
**Bharuch - 392 015**

Telephone/Fax Nos. : 47001- 47028/02642 -  
47094

Telephonic Address

Local Bodies Involved

Standard

Packing

Tremcard

Detail/Ref.

Others.

HDPE Bags

Yes

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