

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product Identifier: Calcium Carbonate

Synonyms: Calcite, Calcitic Limestone, High Cal

Product Name: C12, C22, C25, C50, C52, CaCO₃

Recommended Use: Material is a white insoluble granular or powder material for use as an animal feed, animal pharmaceuticals, agricultural uses, glass, and pH adjustment.

Restrictions on Use: None

Manufacturer

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SECTION 2 - HAZARD IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

OSHA HCS 2012: Specific Target Organ Toxicity - Repeated Exposure, Category 1.

LABEL ELEMENTS

OSHA HCS 2012 -
DANGER



PRECAUTIONARY STATEMENTS

PREVENTION - Wear eye protection. Avoid breathing dust. Wear respiratory protection (in case of inadequate ventilation).

RESPONSE - IF ON SKIN: Rinse with water.
 IF IN EYES: Rinse with water, seek medical attention if discomfort continues.
 IF INHALED: Move the exposed person to fresh air, keep at rest and comfortable.
 IF SWALLOWED: Rinse mouth.

STORAGE - Keep product dry.

DISPOSAL - Generally inert. Dispose in accordance with regulations.

HAZARD STATEMENT

May cause eye irritation. May respiratory problems if inhaled. Causes damage to organs through prolonged or repeated exposure. May cause respiratory tract irritation.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Common Chemical Name: Limestone

Synonyms: Calcium Carbonate; Whiting

CAS Number: 1317-65-3

CAS No.	Chemical Name	Percent wt
471-34-1	Calcium Carbonate	97 - 99%
546-93-0	Magnesium Carbonate	0.5 - 1.5%
14808-60-7	Crystalline Silica	0.01 - 0.04%

Limestone is a natural occurring mineral substance consisting primarily of calcium carbonate with lesser amounts of dolomite together with many other ingredients in small but varying amounts.

SECTION 4 - FIRST AID MEASURES

INHALATION: Dust may irritate the nose, throat and respiratory tract by mechanical abrasion. Coughing, sneezing and shortness of breath may occur following exposures in excess of appropriate exposure limits. Move to fresh air. If breathing is difficult give oxygen and seek medical attention.

SKIN: Wash skin with soap and water.

EYE: Do not rub eyes. Contact with dust may cause irritation by Technical abrasion. Irrigate eyes immediately with clean water. Obtain medical attention of necessary.

INGESTION: In the unlikely event of ingestion of a large quantity of material, do not induce vomiting; drink water or milk; seek medical attention.

MOST IMPORTANT SYMPTOMS AND EFFECTS

Acute (immediate):

Chronic (delayed):

Refer to Section 11 - Toxicological Information

Refer to Section 11 - Toxicological Information

NOTES TO PHYSICIAN

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Non-flammable

Unsuitable Extinguishing Media: No specific information.

Unusual Fire and Explosion Hazards: No specific information.

Hazardous Combustion Products: No specific information.

Advice for Firefighters: Standard personal protective equipment.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use adequate ventilation or dust mask approved by NIOSH. Wear adequate eye protection.

Emergency Procedures: No special emergency procedures, use adequate ventilation.

Environmental Precautions: Avoid run off to waterways and sewers

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Containment: Contain and cover spill to minimize dust emission

Clean Up: Clean up by sweeping, shoveling, vacuuming, or flushing with water.

Neutralizing Chemicals: None required

Disposal: Generally inert. Dispose in accordance with regulations – or recycle and use beneficially in other applications.

SECTION 7 - HANDLING AND STORAGE

Handling: Use adequate ventilation and/or dust mask approved by NIOSH. Wear adequate eye protection. Exposed skin may become dry and irritated with prolonged contact. Avoid contact with food and ingestion.

Storage: Keep product dry. Provide proper ventilation when handling this material to minimize dust.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	Percent wt	ACGIH TLV (TWA) (mg/m ³)	OSHA PEL (TWA) (mg/m ³)	NIOSH REL (TWA) (mg/m ³)	Cancer
Calcium Carbonate	97 - 99%	Withdrawn	15 (total) 5 (resp)	15 (total) 5 (resp)	No
Magnesium Carbonate	0.5 - 1.5%		15 (total) 5 (resp)	15 (total) 5 (resp)	No
Crystalline Silica	0.01 - 0.04%	0.025 (resp)	30 (%sSO ₂)+2 (total) 10 (%sSO ₂)+2 (resp)	0.05 (free silica) (resp)	No

Limestone is not a carcinogen listed by ACGIH, MSHA, OSHA, NTP, DFG, RSST or IARC. However, crystalline silica may be trace amounts at or above detection levels (<0.1%). Occurrence is dependent upon the stone source, process and specific application. Two ranges are disclosed for (T) Total Dust and (R) Respirable Dust.

CONTROL PARAMETERS

Eye Wash: Ensure that eye wash stations are close to the workplace location

Exposure: Evaluate degree of exposure and use PPE as necessary

Ventilation: Local exhaust or ventilation adequate to reduce exposures below appropriate limits

Other: Respirable dust and quartz levels should be monitored regularly. Dust and quartz levels in excess of appropriate exposure limits should be reduced by all feasible engineering controls, including (but not limited to) wet suppression, ventilation, process enclosure and enclosed employee workstations.

EXPOSURE CONTROLS

Eye Protection: ANSI, CSA or ATM approved glasses or goggles. Dust goggles should be worn if excessive emissions are present and when wearing contact lenses.

Respiratory Protection: Follow OSHA respirator guidelines found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hand Protection: No special requirements. Wear gloves to protect skin.

Skin Protection: No special requirements. Wear appropriate clothing to minimize skin contact.

Footwear: No special requirements

Protection: Wash dust-exposed skin with soap and water before eating, drinking, smoking and using toilet facilities. Wash work clothes after each use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

MATERIAL DESCRIPTION

Physical Form: White powder material

Appearance / Description: Ground limestone

Color: White

Odor: Negligible

Taste: Negligible

Particulate Type:

Particulate Size: 100 µg

Aerosol Type: Not relevant

Odor Threshold: N/A

Physical & Chemical Properties: Data lacking

GENERAL PROPERTIES

Boiling Point: N/A

Melting Point: Decomposes @ 1799°F

**Decomposition
Temperature:** N/A

Head of Decomposition: Data lacking

pH: 8.5-9.5 at 10% solids

**Specific Gravity /
Relative Density:** 55-95 lb/ft³

Density: 154 lbs/cu. Ft.

Bulk Density: Data lacking

Water Solubility: Insoluble

Solvent Solubility: Data lacking

Viscosity: Not relevant

Explosive Properties: Data lacking

VOLATILITY

Vapor Pressure: Not relevant

Vapor Density: Not relevant

Evaporation Rate: Not relevant

VOC (Wt.) Not relevant

VOC (Vol.) Not relevant

Volatiles (Wt.) Not relevant

Volatiles (Vol.) Not relevant

FLAMMABILITY**ENVIRONMENTAL****Flash Point:** Not combustible**Half Life:** Data lacking**Self-Accelerating
Decomposition Temp (SADT):** Not relevant**Coefficient of
Water/Oil Distribution:** Not relevant**Heat of Combustion (ΔH_c):** Not relevant**Bioconcentration
Factor:** Data lacking**Burning Time:** Not relevant**Chemical Oxygen
Demand:** Data lacking**Flame Height:** Not relevant**Degradation:** Data lacking**Ignition Distance:** Not relevant**LEL:** Not relevant**Octanol/Water Partition
Coefficient:** Not relevant**UEL:** Not relevant**Bioaccumulation
Factor:** Data lacking**Autoignition:** Not relevant**Flame Duration:** Not relevant**Biochemical
Oxygen Demand
(BOD/BOD5):** Not relevant**Flame Extension:** Not relevant**Persistence:** Data lacking**Flammability (solid, gas):** Not combustible**SECTION 10 - STABILITY AND REACTIVITY****Reactivity:** Reacts with acid to form Carbon Dioxide (CO_2).**Chemical Stability:** Stable under normal conditions.**Possibility of Hazardous Reactions:** Calcium oxide will form at high sustained temperatures.**Conditions to Avoid:** As with any dust, there is the potential for a dust explosion and thus ventilation should be such that gross levels of dust do not accumulate.**Incompatible Materials:** Avoid contact with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride and oxygen difluoride may cause fire and/or explosions. Silica dissolves readily in hydrofluoric acid producing a corrosive gas – silicon tetrafluoride.**Hazardous Decomposition Products:** Limestone ignites on contact with fluorine and is incompatible with acids, alum, ammonium salts and magnesium. Silica reacts violently with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride and oxygen difluoride yielding possible fire and/or explosions. Silica dissolves readily in hydrofluoric acid producing a corrosive gas – silicon tetrafluoride.

SECTION 11 - TOXICOLOGICAL INFORMATION

GHS PROPERTIES	CLASSIFICATION
Acute Toxicity:	OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard:	OSHA HCS 2012 • Classification criteria not met
Carcinogenicity:	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity:	OSHA HCS 2012 • Classification criteria not met
Respiratory Sensitization:	OSHA HCS 2012 • May cause allergy or asthma symptoms or breathing difficulties if inhaled
Serious Eye Damage/Irritation:	OSHA HCS 2012 • Causes serious eye irritation
Skin Corrosion/Irritation:	OSHA HCS 2012 • Causes skin irritation
Skin Sensitization:	OSHA HCS 2012 • Classification criteria not met
STOT-RE 2:	OSHA HCS 2012 • May cause damage to organs through prolonged or repeated exposure
STOT-SE:	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: respiratory irritation
Toxicity for Reproduction:	OSHA HCS 2012 • Classification criteria not met

POTENTIAL HEALTH EFFECTS

Inhalation:	Skin:	Eye:	Ingestion:
<i>Acute (Immediate):</i> Irritation, coughing	<i>Acute (Immediate):</i> Irritation	<i>Acute (Immediate):</i> Irritation	<i>Acute (Immediate):</i> Irritation
<i>Chronic (Delayed):</i> Respiratory irritation, pneumoconiosis	<i>Chronic (Delayed):</i> Data lacking	<i>Chronic (Delayed):</i> Data lacking	<i>Chronic (Delayed):</i> Data lacking

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity: Material data lacking

Persistence and Degradability: Material data lacking

Bioaccumulative Potential: Material data lacking

Mobility in Soil: Material data lacking

Other Adverse Effects: Material data lacking

Other Information: Material data lacking

SECTION 13 - DISPOSAL CONSIDERATIONS

Product Waste: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging Waste: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14 - TRANSPORT INFORMATION

UN Number: Not applicable.

UN Proper Shipping Names: Not applicable.

Transport Hazard Class: Not applicable.

Packaging Group: Not applicable.

Shipping and Transportation Limestone is classified as a non-hazardous material by the Canadian Transportation of Dangerous Good (TDG) Regulations and the US Department of Transportation (DOT).

EU Transportation: Road (ADR); Rail (RID); Sea (IMDG); Air (ICO/IATA) – Not restricted.

International Maritime Dangerous Goods (IMDG Code) – Not classified.

Transport in bulk EU Annex II of MARPOL73/78 and the IBC Code) – Not applicable.

SECTION 15 - REGULATORY INFORMATION

State: Consult local and state hazard communication regulations.

Federal: FDA: 21 CFR 175.105; 21 CFR 175.300; 21 CFR 176.170; 21 CFR 176.180; 21 CFR 177.1210; 21 CFR 178.3297; 40 CFR 180.1011:©

TSCA/DSL: Listed under CAS 1317-65-3 Exempt from DSL as naturally occurring.

SPILLS: Sweep up spillage in dry form where possible.

OSHA: Labeling required under OSHA Hazard Communication Standard (29 CFR 1910.1200 (and other applicable state and local laws and regulations.

PROP 65: WARNING: This product MAY contain chemical(s) known to the state of California to cause cancer.

NAFTA: Product qualifies under HS Tariff No 2521.00 as 100% US Origin, Preference Criteria A. EU Directive: Not classified as hazardous for supply (1999/45/EC)

CAS No.	Chemical Name	SARA 302	SARA 304	SARA 313	RCRA	CAA Sec. 112
471-34-1	Calcium Carbonate	No	No	No	No	No
546-93-0	Magnesium Carbonate	No	No	No	No	No
14808-60-7	Crystalline Silica	No	No	No	No	No

Additional Information: SARA311: listed. ACGIH TLV assigned

SECTION 16 - OTHER INFORMATION

Last Revision Date: 1/20/2020

Preparation Date: 8/29/2019

Disclaimer / Statement of Liability: The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1