

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	<b>Calcium Carbonate, Enriched Calcium Carbonate</b>
CAS No.	471-34-1
EINECS No.	207-439-9
RTECS No.	FF9335000
Chemical Formula	CaCO <sub>3</sub>
Molecular Weight	100.0869
Synonyms	Carbonic acid calcium salt; calcite; aragonite; limestone
Supplier Address*	ISOFLEX USA PO Box 472615 San Francisco CA 94147 United States
Telephone	+1 415-440-4433
Fax	+1 415-563-4433
Emergency Phone Number (both supplier and manufacturer)	Infotrac/ +1 800-535-5053  *May include subsidiaries or affiliate companies/divisions
Email	<a href="mailto:iusa@isoflex.com">iusa@isoflex.com</a>
Website	<a href="http://www.isoflex.com">www.isoflex.com</a>
Preparation Information	ISOFLEX USA Product Safety +1 415-440-4433

## 2. HAZARDS IDENTIFICATION

**Emergency Overview** **Caution!** May cause irritation to skin, eyes and respiratory tract. Nuisance Dust. **Lab Protective Equipment:** Goggles, lab coat. **Storage Color Code:** Orange (General Storage)

### Potential Health Effects

<i>Inhalation</i>	Excessive concentrations of a nuisance dust may cause nuisance condition such as coughing, sneezing, and nasal irritation.
<i>Ingestion</i>	Non-toxic. Excessive oral doses of calcium carbonate may produce alkalosis and hypercalcemia.
<i>Skin Contact</i>	Not expected to be a health hazard from skin exposure
<i>Eye Contact</i>	No information found, but presumed to cause mechanical irritation
<i>Sensitization</i>	No sensitizing effects known
<i>Aggravation of Pre-existing Conditions</i>	No information found

**NFPA Ratings:** (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

**Health Hazard = 0    Flammability = 0    Reactivity = 0**



**HMIS Ratings:** (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

**Health Hazard = 1    Flammability = 0    Physical Hazard = 0**

<b>HEALTH HAZARD</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Calcium Carbonate  
CAS No.: 471-34-1  
Chemical Formula: CaCO<sub>3</sub>  
Molecular Weight: 100.0869

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### 4. FIRST AID MEASURES

*Inhalation* Remove to fresh air. Get medical attention for any breathing difficulty.  
*Ingestion* If large amounts were swallowed, give water to drink and get medical advice.  
*Skin Contact* Wash exposed area with soap and water. Get medical advice if irritation develops.  
*Eye Contact* Wash thoroughly with running water. Get medical advice if irritation develops.

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### 5. FIREFIGHTING MEASURES

*Flammability* Not considered a fire hazard  
*Explosion Hazard* Not considered an explosion hazard  
*Suitable Extinguishing Media* Use any means suitable for extinguishing surrounding fire.  
*Protective Equipment for Firefighters* In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure-demand or other positive-pressure mode.  
*Special Hazards Caused by the Material, Products of Combustion or Resulting Gases* Formation of toxic gases is possible during heating or in case of fire.

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## 6. ACCIDENTAL RELEASE MEASURES

<i>Personal Precautions</i>	Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.
<i>Methods for Cleaning Up</i>	Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

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## 7. HANDLING AND STORAGE

<i>Handling</i>	Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.
<i>Information about Protection Against Explosions and Fires</i>	Not flammable
<i>Storage</i>	Store in cool, dry conditions in tightly-sealed containers.
<i>Special Requirements</i>	Hygroscopic

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Airborne Exposure Limits

<i>OSHA Permissible Exposure Limit (PEL)</i>	15 mg/m <sup>3</sup> total dust, 5 mg/m <sup>3</sup> respirable fraction for nuisance dusts
<i>ACGIH Threshold Limit Value (TLV) for Particulates (Insoluble or Poorly Soluble) - Not Otherwise Specified (PNOS)</i>	3 mg/m <sup>3</sup> respirable particles and 10 mg/m <sup>3</sup> inhalable particles
<i>Ventilation System</i>	A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document <i>Industrial Ventilation, A Manual of Recommended Practices</i> , most recent edition, for details.
<i>Respiratory Protection</i>	If the exposure limit is exceeded and engineering controls are not feasible, a half-face piece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
<i>Skin Protection</i>	Gloves and lab coat, apron or coveralls
<i>Eye Protection</i>	Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<i>Appearance:</i>	Fine, white powder
<i>Odor:</i>	Odorless
<i>Solubility:</i>	0.001 gm in 100 ml water, soluble in dilute acids
<i>Density:</i>	2.7-2.95
<i>pH:</i>	No information found
<i>% Volatiles by volume @ 21 °C (70 °F):</i>	0
<i>Boiling Point:</i>	Not applicable
<i>Melting Point:</i>	825 °C (1517 °F)
<i>Vapor Density (Air=1):</i>	No information found
<i>Vapor Pressure (mm Hg):</i>	No information found
<i>Evaporation Rate (BuAc=1):</i>	No information found

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## 10. STABILITY AND REACTIVITY

<i>Stability</i>	Stable under ordinary conditions of use and storage
<i>Hazardous Decomposition Products</i>	When heated to decomposition (825 °C), emits calcium oxide fumes and liberates carbon dioxide
<i>Hazardous Polymerization</i>	Will not occur
<i>Materials to Avoid</i>	Acids, fluorine, magnesium with hydrogen
<i>Conditions to Avoid</i>	Heat and materials to avoid

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## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### LD/LC50 Calcium carbonate (CAS# 471-34-1) - 100%

<i>Irritation of Skin</i>	Moderate: 500 mg/24H (rbt) Irritant to skin and mucous membranes
<i>Irritation of Eyes</i>	Severe: 750 ug/24H (rbt) Has an irritating effect on the eyes
<i>Sub-acute to Chronic Toxicity</i>	The toxicity of calcium compounds is generally due to the anion.
<i>Epidemiology:</i>	No information found
<i>Teratogenicity:</i>	No information found
<i>Reproductive Effects:</i>	No information found
<i>Mutagenicity:</i>	No information found
<i>Neurotoxicity:</i>	No information found
<i>Additional Toxicological Information</i>	To the best of our knowledge, the acute and chronic toxicity of this substance is not fully known. No classification data on the carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

No information found. This chemical is expected to cause no oxygen depletion in aquatic systems. It has a low potential to affect aquatic organisms. Acute aquatic effects: 48-hour LC50 - Mosquito fish – 56,000 mg/L.

## Environmental Toxicity

This chemical released into the environment will not have a significant impact; however, do not allow material to be released to the environment without proper governmental permits. Do not empty into drains.

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### 13. DISPOSAL CONSIDERATIONS

#### *Disposal*

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements. Consult 40 CFR Part 261.3 for details.

#### *RCRA P-Series/U-Series*

None listed

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### 14. TRANSPORT INFORMATION

**Non-Hazardous for Transport: This substance is considered non-hazardous for transport.**

#### DOT

Proper Shipping Name: None

#### IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport. Contact ISOFLEX for further transportation information.

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### 15. REGULATORY INFORMATION

#### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **SARA 311/312 Hazards**

No SARA 311/312 Hazards

#### **Massachusetts Right to Know Components**

No components are subject to the Massachusetts Right to Know Act.

#### **Pennsylvania Right to Know Components**

Calcium carbonate / CAS No. 471-34-1

#### **New Jersey Right to Know Components**

Calcium carbonate / CAS No. 471-34-1

#### **Minnesota Right to Know Components**

Calcium carbonate / CAS No. 471-34-1

#### **California Prop. 65 Components**

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

#### **TSCA**

CAS No. 471-34-1 is listed on the TSCA inventory; however, none of the chemicals in this material has a SNUR under TSCA.

#### **Clean Air Act**

This material does not contain any hazardous air pollutants.  
This material does not contain any Class 1 ozone depletors.  
This material does not contain any Class 2 ozone depletors.

**Clean Water Act** None of the chemicals in this product is listed as Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.

### International Regulations

#### EC Directives

*Hazard Symbols:* XI

*Risk Phrases:* **R36** – Irritating to eyes

*Safety Phrases:* **S26** – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. **S39** – Wear eye/face protection.

#### WGK

CAS No. 471-34-1: 0

#### Canada – DSL/NDSL

CAS No. 471-34-1 is listed on Canada's DSL list.

#### Canada – WHMIS

This material has a WHMIS classification of D2B. It has been classified in accordance with the hazard criteria of the Controlled Products Regulations, and the SDS contains all of the information required by those regulations.

#### Canadian Ingredient Disclosure List

CAS No. 471-34-1 is not listed.

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## 16. OTHER INFORMATION

*Prepared By* ISOFLEX USA  
PO Box 472615  
San Francisco CA 94147  
United States

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*Revision Number* 3

*Revision Note* Update Supplier Address

### ISOFLEX USA's Commonly Used Abbreviations and Acronyms\*

ACGIH	American Conference of Governmental Industrial Hygienists
ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances
ALARA	As Low As Is Reasonably Achievable
AMU	Atomic Mass Unit
ANSI	American National Standards Institute
BLS	Basic Life Support
BOD5	Biochemical Oxygen Demand
CAM	Continuous Air Monitor
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CEN	European Committee for Standardization
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CLP	Classification, Labelling and Packaging (European Union)
COD	Chemical Oxygen Demand
CPR	Controlled Products Regulations (Canada)
CWA	Clean Water Act (USA)
DAC	Derived Air Concentration (USA)
DOE	United States Department of Energy (USA)
DOT	United States Department of Transportation (USA)
DSL	Domestic Substances List (Canada)

EC50	Half Maximal Effective Concentration
ECL	Korean Existing Chemicals List
EINECS	European Inventory of Existing Commercial Chemical Substances
EHS	Environmentally Hazardous Substance
ELINCS	European List of Notified Chemical Substances
EMS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EPA	Environmental Protection Agency (USA)
EPCRA	Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986
GHS	Globally Harmonized System
HMIS	Hazardous Materials Identification System (USA)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Containers
ICAO	International Civil Aviation Organization
IDLH	Immediately Dangerous to Life or Health
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
IMDG	International Maritime Code for Dangerous Goods
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
LDLO	Lethal Dose Low
LOEC	Lowest-Observed-Effective Concentration
MARPOL	International Convention for the Prevention of Pollution from Ships
MSHA	Mine Safety and Health Administration (USA)
NCRP	National Council on Radiation Protection & Measurements (USA)
NDSL	Non-Domestic Substances List (Canada)
NFPA	National Fire Protection Association (USA)
NIOSH	National Institute for Occupational Safety and Health (USA)
NOEC	No Observed Effect Concentration
N.O.S.	Not Otherwise Specified
NRC	Nuclear Regulatory Commission (USA)
NTP	National Toxicology Program (USA)
OSHA	Occupational Safety and Health Administration (USA)
PBT	Persistent Bioaccumulative and Toxic Chemical
PEL	Permissible Exposure Limit
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PIH	Poisonous by Inhalation Hazard
RCRA	Resource Conservation and Recovery Act (USA)
RCT	Radiation Control Technician
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (Europe)
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
RQ	Reportable Quantity
RTECS	Registry of Toxic Effects of Chemical Substances
RTK	Right to Know
SARA	Superfund Amendments and Reauthorization Act (USA)
SNUR	Significant New Use Rule (TSCA)
TDG	Transportation of Dangerous Goods (Canada)
TIH	Toxic by Inhalation Hazard
TLV	Threshold Limit Value
TPQ	Threshold Planning Quantity
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
UN	United Nations (Number)
VOC	Volatile Organic Compound
vPvB	Very Persistent Very Bioaccumulative Chemical
WGK	Wassergefährungsklassen (Germany: Water Hazard Classes)
WHMIS	Workplace Hazardous Materials Information System

\*One or more of the above-listed items may not appear in this document.

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