



IMERYS

SAFETY DATA SHEET

Atomite

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

1. Identification

Product identifier

Product name	Atomite
Chemical name	Calcium Carbonate
CAS number	1317-65-3
Molecular Weight	100.1 g/mol

Recommended use of the chemical and restrictions on use

Application	Functional mineral for use in industrial applications.
Uses advised against	Not for human or animal consumption.

Details of the supplier of the safety data sheet

Supplier	Imerys Carbonates USA, Inc. 100 Mansell Court East, Ste 300 Roswell Georgia 30076, USA +1 770 594-0660 +1 770 645-3384
Manufacturer	Imerys Carbonates USA, Inc. 1301 Gene E. Stewart Blvd Sylacauga, AL 35151

Emergency telephone number

National emergency telephone number +1 (800) 424-9300 CHEMTREC

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards	Not Classified
Health hazards	STOT RE 1 - H372
Environmental hazards	Not Classified

Human health Long term exposure to crystalline silica can cause lung injury (silicosis). IARC and NTP have determined that crystalline silica inhaled from occupational sources can cause cancer in humans. Risk of injury is dependent on the duration and level of exposure.

Label elements

Hazard symbols



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Signal word	Danger
Hazard statements	H372 Causes damage to organs (Lungs) through prolonged or repeated exposure.
Precautionary statements	P260 Do not breathe dust. P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P314 Get medical advice/ attention if you feel unwell. P501 Dispose of contents/ container in accordance with national regulations.

Other hazards

Others

3. Composition/information on ingredients

Substances

Ground Limestone CAS number: 1317-65-3	>98.5%
Classification Not Classified	
Water CAS number: 7732-18-5	<1%
Classification Not Classified	
Quartz CAS number: 14808-60-7	~0.6%
Classification STOT RE 1 - H372	

The full text for all hazard statements is displayed in Section 16.

Product name	Atomite
Chemical name	Calcium Carbonate
CAS number	1317-65-3
Composition comments	The quartz weight % reported above is total weight and not respirable. A proportion of the quartz may become available in the respirable fraction. The level of exposure to respirable crystalline silica will depend on the actions performed on the product during handling and use. Exposure levels should, therefore, be measured during use, in comparison to relevant occupational exposure limits, as exposure cannot be determined from bulk product analysis. This product contains a propriety dispersant.

4. First-aid measures

Description of first aid measures

General information	Get medical attention if any discomfort continues. Consult a physician for specific advice.
Inhalation	Move affected person to fresh air at once.

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Ingestion Rinse mouth thoroughly with water. Give plenty of water to drink. Never give anything by mouth to an unconscious person.

Skin Contact Wash with plenty of soap and water.

Eye contact Rinse cautiously with water for several minutes.

Most important symptoms and effects, both acute and delayed

General information The product is considered to be a low hazard under normal conditions of use. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media The product is non-combustible. The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media None known.

Special hazards arising from the substance or mixture

Specific hazards Will decompose at temperatures exceeding 840°C/1500°F. The product will produce carbon dioxide on strong heating or reaction with acid.

Advice for firefighters

Protective actions during firefighting Wear suitable respiratory protection. No specific fire-fighting protection is required. Use an extinguishing agent suitable for the surrounding fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Use proper respiratory and personal protective equipment. MSHA / NIOSH or OSHA / NIOSH approved respirator recommended. Spilled materials may cause slippery conditions when wet. Care should be exercised when walking on spills on floors or concrete pads.

For emergency responders Ensure adequate ventilation. Keep dust levels to a minimum.

Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

Methods and material for containment and cleaning up

Methods for cleaning up Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation. Vacuum, pump or scoop spilled material into containers for reclaiming or disposal. Do not discharge into drains, watercourses or onto the ground.

7. Handling and storage

Precautions for safe handling

Usage precautions Do not eat, drink and smoke in work areas; wash hands after use; remove contaminated clothing and protective equipment before entering eating areas. Provide adequate ventilation. Avoid breathing dust. Observe occupational exposure limits and minimise the risk of inhalation of dust.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in a cool and well-ventilated place. Store away from acids.

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8. Exposure controls/Personal protection

Control parameters

Occupational exposure limits

Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ respirable fraction

Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust

Ground Limestone

Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ respirable fraction

Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust

Quartz

Long-term exposure limit (8-hour TWA): OSHA 0.05 mg/m³ respirable dust

Long-term exposure limit (8-hour TWA): ACGIH 0.025 mg/m³ respirable fraction

A2

OSHA = Occupational Safety and Health Administration.

ACGIH = American Conference of Governmental Industrial Hygienists.

A2 = Suspected Human Carcinogen.

Immediate danger to life and health 25 mg/m³

Quartz (CAS: 14808-60-7)

Ingredient comments Long term exposure to crystalline silica can cause lung injury (silicosis). IARC and NTP have determined that crystalline silica inhaled from occupational sources can cause cancer in humans. Risk of injury is dependent on the duration and level of exposure.

Immediate danger to life and health 25 mg/m³ 50 mg/m³

Exposure controls

Appropriate engineering controls	Provide adequate ventilation. Mechanical ventilation or local exhaust ventilation may be required. In case of insufficient ventilation, wear suitable respiratory equipment. Observe any occupational exposure limits for the product or ingredients. Avoid inhalation of dust.
Eye/face protection	Wear safety glasses with side-shields in circumstances where there is a risk of penetrative eye injuries.
Hand protection	For prolonged or repeated skin contact use suitable protective gloves.
Hygiene measures	Wash hands thoroughly after handling. Use appropriate skin cream to prevent drying of skin.
Respiratory protection	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.
Environmental exposure controls	Dispose of contents/containers in accordance with local regulations

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Powder.
Color	White.
Odor	Odorless.
Odor threshold	Does not apply, as product is odorless.

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pH	8-9
Melting point	>1300°C / >2400°F
Initial boiling point and range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Non flammable
Upper/lower flammability or explosive limits	Not applicable.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	2.71 g/cm ³
Solubility(ies)	Slightly soluble in water.
Partition coefficient	No information available.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	>840°C/>1500°F
Viscosity	Not applicable.
Explosive properties	Not considered to be explosive.
Refractive index	1.6
Molecular weight	100.1
Volatile organic compound	Not applicable.

10. Stability and reactivity

Reactivity	When in contact with acids this product will form calcium oxide and carbon dioxide.
Stability	No particular stability concerns. Stable at normal ambient temperatures. Will decompose at temperatures exceeding 840°C/1500°F. The product will produce carbon dioxide on strong heating or reaction with acid. When in contact with acids this product will form calcium oxide and carbon dioxide.
Conditions to avoid	Acids.
Materials to avoid	Acids.
Hazardous decomposition products	Carbon dioxide (CO ₂). Calcium oxide (CaO).

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) 6450 mg/kg (rat)

Skin corrosion/irritation

Skin corrosion/irritation Prolonged contact may cause dryness of the skin.

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Serious eye damage/irritation

Serious eye damage/irritation Slightly irritating.

Carcinogenicity

IARC carcinogenicity Crystalline silica dust (quartz): IARC Group 1 Carcinogenic to humans.

NTP carcinogenicity Crystalline silica, respirable (Quartz): Known human carcinogen.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Long term exposure to crystalline silica can cause lung injury (silicosis). IARC and NTP have determined that crystalline silica inhaled from occupational exposure sources can cause cancer in humans. Risk of injury is dependent on duration and level of exposure.

Target organs Lungs

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard

Inhalation

Dust in high concentrations may irritate the respiratory system. Frequent inhalation of dust over a long period of time increases the risk of developing pneumoniocosis.

Skin Contact

Prolonged contact may cause dryness of the skin.

Eye contact

May cause eye irritation.

12. Ecological information

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

Persistence and degradability

Persistence and degradability The product is biodegradable.

Bioaccumulative potential

Bio-Accumulative Potential Bioaccumulation is unlikely.

Partition coefficient No information available.

Mobility in soil

Mobility Slightly soluble in water. Will sediment over time.

13. Disposal considerations

Waste treatment methods

General information Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Dispose of contents/container in accordance with local regulations.

14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

DOT transport notes Not regulated.

Environmental hazards

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Environmentally Hazardous Substance

No.

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

Not listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

Not listed.

SARA 313 Emission Reporting

Not listed.

SARA (311/312) Hazard Categories

Delayed

This product is subject to the reporting requirements of SARA 312 at a threshold quantity of 10,000 pounds.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins



WARNING

This product can expose you to chemicals including crystalline silica (quartz), which is known to the state of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Massachusetts "Right To Know" List

The following ingredients are listed:
Quartz (crystalline silica)

Rhode Island "Right To Know" List

The following ingredients are listed:
Quartz (crystalline silica)
Ground Limestone

Minnesota "Right To Know" List

The following ingredients are listed:
Quartz (crystalline silica)
Ground Limestone

New Jersey "Right To Know" List

The following ingredients are listed:
Quartz (crystalline silica)
Ground Limestone

Pennsylvania "Right To Know" List

The following ingredients are listed:
Quartz (crystalline silica)
Ground Limestone

Inventories

EU - EINECS/ELINCS

Yes

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Canada - DSL/NDSL

Covered on the Canadian Domestic Substances List (DSL) by the entry "naturally occurring substances" (Environment Canada, 1998).
NDSL

US - TSCA

Yes

US - TSCA 12(b) Export Notification

No.

Australia - AICS

Yes

Japan - ENCS

Yes

Korea - KECI

Yes

China - IECSC

Yes

Philippines - PICCS

Yes

New Zealand - NZIOC

Yes

Taiwan - TCSI

Yes

16. Other information

Abbreviations and acronyms used in the safety data sheet

CFR: Code of Federal Regulation
DOT: Department of Transportation
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
IMDG: International Maritime Dangerous Goods
MSHA: Mine Safety and Health Administration
NIOSH: National Institute for Occupational Safety and Health
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
RCRA: Resource Conservation and Recovery Act
TWA: Time Weighted Average

Classification abbreviations and acronyms

STOT RE = Specific target organ toxicity-repeated exposure

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Hazard statements in full

H372 Causes damage to organs (Lungs) through prolonged or repeated exposure.
H372 Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

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ACA HMIS Health rating.	Slight Hazard. (1)
ACA HMIS Flammability rating.	Will not burn. (0)
ACA HMIS Physical hazard rating.	Normally stable. (0)
ACA HMIS Personal protection rating.	E

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