



Material Safety Data Sheet

Material Name: Ag Lime

ID: LONGVIEW AG
LIME

*** Section 1 - Chemical Product and Company Identification ***

Chemical Name: Mixture

Product Use: PCC Co-Product

Synonyms: Aglime

Manufacturer Information

Specialty Minerals Inc - Longview

3315 Industrial Way

Longview, WA 98632

Phone: 360 518 6626

Emergency # +1-760-476-3962 (USA) Access Code: 333336

General Comments

*** Section 2 - Composition / Information on Ingredients ***

CAS #	Component	Percent (wt/wt)
1317-65-3	Calcium carbonate	60-100
1305-62-0	Calcium hydroxide	5-10
14808-60-7	Quartz	1-5
1305-78-8	Calcium oxide	1-5

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Silica, crystalline (general form).

Component Information

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

*** Section 3 - Hazards Identification ***

Emergency Overview

This product is irritating to the respiratory system and skin.

Potential Health Effects: Eyes

This product is severely irritating to the eyes and may cause eye burns.

Potential Health Effects: Skin

This product may cause irritation to the skin.

Potential Health Effects: Ingestion

May cause temporary irritation of the throat, stomach, and gastrointestinal tract.

Potential Health Effects: Inhalation

WARNING: This product contains crystalline silica. Long-term overexposure to crystalline silica causes silicosis, a form of pulmonary fibrosis. Continued overexposure to silica can lead to cardiopulmonary impairment.

Crystalline silica has been reviewed by IARC. IARC found sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite from occupational sources.

Medical Conditions Aggravated by Exposure

No information available for the product.

Potential Environmental Effects

This material is alkaline.

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HMIS Ratings: Health: 1* Fire: 0 Reactivity: 0 Pers. Prot.: F

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 4 - First Aid Measures ***

First Aid: Eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

First Aid: Skin

For skin contact, wash immediately with soap and water.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

First Aid: Inhalation

If inhaled, immediately remove the affected person to fresh air.

First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

This material will not burn.

Hazardous Combustion Products

None identified.

Extinguishing Media

Use methods for the surrounding fire.

Fire Fighting Equipment/Instructions

None necessary.

NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Contain the discharged material.

Clean-Up Procedures

Wear appropriate protective equipment and clothing during clean-up.

Evacuation Procedures

None necessary.

Special Procedures

No additional information available.

*** Section 7 - Handling and Storage ***

Handling Procedures

Avoid contact with skin and eyes.

Storage Procedures

Room temperature - normal conditions.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

A: General Product Information

Protect from eye and skin contact.

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B: Component Exposure Limits

Calcium carbonate (1317-65-3)

OSHA: 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)
NIOSH: 10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable dust)

Calcium hydroxide (1305-62-0)

ACGIH: 5 mg/m³ TWA
OSHA: 5 mg/m³ TWA (not in effect as a result of reconsideration)
NIOSH: 5 mg/m³ TWA

Calcium oxide (1305-78-8)

ACGIH: 2 mg/m³ TWA
OSHA: 5 mg/m³ TWA (not in effect as a result of reconsideration)
NIOSH: 2 mg/m³ TWA

Quartz (14808-60-7)

ACGIH: 0.025 mg/m³ TWA (respirable fraction)
OSHA: 0.1 mg/m³ TWA (respirable dust)
NIOSH: 0.05 mg/m³ TWA (respirable dust)

Engineering Controls

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear dust goggles.

Personal Protective Equipment: Skin

Use of protective coveralls and long sleeves is recommended. Use impervious gloves.

Personal Protective Equipment: Respiratory

Wear a NIOSH approved filtering facepiece (dust mask).

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

* * * Section 9 - Physical & Chemical Properties * * *

Appearance: Gray powder	Odor: None
Physical State: Solid	pH: 12.4-12.7 (USEPA Method 9045C)
Vapor Pressure: Minimal	Vapor Density: N/A
Boiling Point: Unknown	Melting Point: N/A
Solubility (H₂O): Slightly Soluble	Specific Gravity: 2.7 (dry product)

* * * Section 10 - Stability & Reactivity * * *

Chemical Stability

Stable under normal conditions.

Chemical Stability: Conditions to Avoid

None.

Incompatibility

None identified.

Hazardous Decomposition

None identified.

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Hazardous Polymerization

Will not occur.

*** Section 11 - Toxicological Information ***

Acute and Chronic Toxicity

A: General Product Information

No information available for the product.

B: Component Analysis - LD50/LC50

Calcium hydroxide (1305-62-0)

Oral LD50 Rat 7340 mg/kg

Calcium oxide (1305-78-8)

Oral LD50 Rat 500 mg/kg

Quartz (14808-60-7)

Oral LD50 Rat 500 mg/kg

Carcinogenicity

A: General Product Information

No carcinogenicity data available for this product.

B: Component Carcinogenicity

Quartz (14808-60-7)

ACGIH: A2 - Suspected Human Carcinogen

NIOSH: potential occupational carcinogen

NTP: Known Human Carcinogen (Select Carcinogen)

IARC: Monograph 100C [in preparation] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources); Monograph 68 [1997] (Group 1 (carcinogenic to humans))

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

A 96-hour Washington State Hazardous Waste Regulation bioassay using concentrations of 10 and 100 mg/L of this material was conducted. The organisms tested were rainbow trout (*Oncorhynchus mykiss*). Results were as follows:

10 ppm - 0 dead/30 tested (does not qualify as a Washington State Extremely Hazardous Waste)

100 ppm - 2 dead/30 tested (does not qualify as a Washington State Dangerous Waste)

LC50 >100 mg/L

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Calcium hydroxide (1305-62-0)

96 Hr LC50 *Gambusia affinis*: 160 mg/L [static]

Calcium oxide (1305-78-8)

96 Hr LC50 *Cyprinus carpio*: 1070 mg/L [static]

Environmental Fate

This material shows no bioaccumulation or food chain concentration toxicity potential.

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*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

No components are identified as hazardous wastes.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

State of Washington Waste Number and Description:

This material is a special waste in the State of Washington only.

Washington State Waste Code: WSC2

*** Section 14 - Transport Information ***

US DOT Information

Shipping Name: None necessary.

Additional Info.: None.

International Transportation Regulations

This product is not regulated as a hazardous material by the United States (DOT) or Canadian (TDG) transportation regulations.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

Components of this product have been checked against the non-confidential TSCA inventory by CAS Registry Number. Components not identified on this non-confidential inventory are either exempt from listing (i.e. polymers, hydrates) or are listed on the confidential inventory as declared by the supplier.

B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

Acute Health: Yes **Chronic Health:** Yes **Fire:** No **Pressure:** No **Reactive:** No

State Regulations

A: General Product Information

Other state regulations may apply. Check individual state requirements.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	FL	MA	MN	NJ	PA	MI
Calcium carbonate	1317-65-3	No	No	Yes	Yes	Yes	Yes	No
Calcium hydroxide	1305-62-0	Yes	No	Yes	Yes	Yes	Yes	No
Calcium oxide	1305-78-8	Yes	No	Yes	Yes	Yes	Yes	No
Quartz	14808-60-7	No	No	Yes	Yes	Yes	Yes	No

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

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Other Regulations

A: General Product Information

Canadian WHMIS Classification: Class D, Division 2, Subdivision A. Class E, Corrosive Material

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	NDSL	EINECS	AUST	PHIL.	MITI	KOREA	ELINCS	CHINA
Calcium carbonate	1317-65-3	Yes	No	Yes	Yes	Yes	Yes	No	Yes	No	Yes
Calcium hydroxide	1305-62-0	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes
Calcium oxide	1305-78-8	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes
Quartz	14808-60-7	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes

C: Component Analysis - WHMIS IDL

Component	CAS	Present
Calcium hydroxide	1305-62-0	Yes
Calcium oxide	1305-78-8	Yes
Quartz	14808-60-7	Yes

* * * Section 16 - Other Information * * *

Other Information

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Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; DOT = Department of Transportation; RCRA = Resource Conservation and Recovery Act

This is the end of MSDS # LONGVIEW AG LIME