



# QUICKLIME

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 09/11/2012

Revision date: 03/19/2015

Supersedes: 09/11/2012

Version: 2.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : QUICKLIME  
Product code : C-MS-AT-2004ADQLIME  
Other means of identification : ECO-CAL® LKD, HIGH-CAL QUICKLIME, METALLURGICAL QUICKLIME

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Industrial use

#### 1.3. Details of the supplier of the safety data sheet

Specialty Minerals Inc.,  
260 Columbia Street,  
Adams,  
MA 01220  
U.S.A

Tel. 1-877-684-7627

#### 1.4. Emergency telephone number

Emergency number : +1 760-476-3962  
3E Global Emergency Response Services. Access code: 333336 (if you mention SDS name and company name-you don't need the access code)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS-US)

Skin Irrit. 2 H315  
Eye Dam. 1 H318  
Carc. 1A H350  
STOT SE 3 H335

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H335 - May cause respiratory irritation  
H350 - May cause cancer (Inhalation)

Precautionary statements (GHS-US) :

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P261 - Avoid breathing dust  
P264 - Wash hands, forearms and face thoroughly after handling  
P271 - Use only outdoors or in a well-ventilated area  
P280 - Wear eye protection, protective clothing, protective gloves  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P308+P313 - If exposed or concerned: Get medical advice/attention  
P362 - Take off contaminated clothing  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
P405 - Store locked up

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### 2.3. Other hazards

Other hazards not contributing to the classification : Prolonged and/or massive exposure to respirable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica.

### 2.4. Unknown acute toxicity (GHS-US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Calcium Oxide	(CAS No) 1305-78-8	60 - 100	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
Quartz	(CAS No) 14808-60-7	0.1 – 2.5	Carc. 1A, H350 STOT SE 3, H335 STOT SE 1, H370

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms develop obtain medical attention.

First-aid measures after skin contact : Obtain immediate medical attention. Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and water.

First-aid measures after eye contact : Obtain immediate medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : Obtain immediate medical attention. Wash out mouth with water and give 100-200 ml of water to drink.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Severe irritation or burns to the mouth, throat, esophagus, and stomach.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : In case of fire in the surroundings: Carbon dioxide. Dry chemical.

Unsuitable extinguishing media : Water. Halons.

### 5.2. Special hazards arising from the substance or mixture

Reactivity : Reacts violently with water, releasing sufficient heat to ignite combustible materials in certain circumstances.

### 5.3. Advice for firefighters

Protection during firefighting : Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and eye or face protection. Where excessive dust may result, wear approved mask.

Emergency procedures : Ventilate area. Avoid generation of dust. Do not breathe dust.

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### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if large amounts of the product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Keep as dry as reasonably practicable. Minimize generation of dust. Collect using vacuum cleaner fitted with HEPA filter. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

### 6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothing. The product should be kept dry. Keep/Store away from Incompatible materials.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. The product should be kept dry. Do not store or transport in aluminum containers.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Calcium Oxide (1305-78-8)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
USA ACGIH	Remark (ACGIH)	URT irr
USA - NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Quartz (fine fraction) (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> Respirable Fraction
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
USA OSHA	Remark (OSHA)	(3) See Table Z-3.

### 8.2. Exposure controls

Appropriate engineering controls : Provide adequate ventilation, including appropriate local extraction, to ensure that occupational exposure limits are not exceeded.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Protective gloves.

Eye protection : tightly fitting safety goggles.

Skin and body protection : Use protective clothing to avoid contact with (bare) skin.

Respiratory protection : Dust mask or respirator.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Powder.

Color : White.

Odor : None

Odor threshold : No data available

pH : 12.45 (solution @ 25°C)

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : 2570 °C / 4658 °F

Freezing point : No data available

Boiling point : 2850 °C / 5162 °F

Flash point : No data available

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Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: Not applicable
Relative vapor density at 20 °C	: No data available
Relative density	: 3.2
Solubility	: Negligible. Water: Reacts with water
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts violently with water, releasing sufficient heat to ignite combustible materials in certain circumstances.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Reacts exothermically with water (moisture).

### 10.4. Conditions to avoid

Moisture.

### 10.5. Incompatible materials

Acids. Water. Boric oxide. fluorine. organic materials.

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### Calcium Oxide (1305-78-8)

LD50 oral rat	> 2000 mg/kg
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Skin corrosion/irritation : Causes skin irritation.  
pH: 12.45 (solution @ 25°C)

Serious eye damage/irritation : Causes serious eye damage.  
pH: 12.45 (solution @ 25°C)

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : May cause cancer (Inhalation).

#### Quartz (fine fraction) (14808-60-7)

IARC group	1 - Carcinogenic to humans
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Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

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Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Severe irritation or burns to the mouth, throat, esophagus, and stomach.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water : High concentration in receiving water will injure aquatic life by pH effect

#### Calcium Oxide (1305-78-8)

LC50 fish	1070 mg/l 96hr, static (Cyprinus carpio)
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#### 12.2. Persistence and degradability

##### QUICKLIME

Persistence and degradability	Not relevant for inorganic substances.
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#### 12.3. Bioaccumulative potential

##### QUICKLIME

Bioaccumulative potential	No bioaccumulation.
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#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on ozone layer	: No additional information available
Effect on the global warming	: No known ecological damage caused by this product.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.

### SECTION 14: Transport information

In accordance with DOT

Transport document description	: UN1910 Calcium oxide, 8, III
UN-No.(DOT)	: 1910
DOT NA no.	: UN1910
Proper Shipping Name (DOT)	: Calcium oxide
Transport hazard class(es) (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT)	: 8 - Corrosive



DOT Symbols	: A - Material is regulated as a hazardous material only when transported by air
Packing group (DOT)	: III - Minor Danger

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- DOT Special Provisions (49 CFR 172.102) : IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).  
IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.  
T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2)  
TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.
- DOT Packaging Exceptions (49 CFR 173.xxx) : 154  
DOT Packaging Non Bulk (49 CFR 173.xxx) : 213  
DOT Packaging Bulk (49 CFR 173.xxx) : 240  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 25 kg  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 100 kg  
DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

### Additional information

Other information : No supplementary information available.

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

#### CANADA

No additional information available

#### 15.2.2. National regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

Quartz (fine fraction) (14808-60-7)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes				

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### Calcium Oxide (1305-78-8)

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) List

### Quartz (fine fraction) (14808-60-7)

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

Revision date : 03/19/2015

Data sources : World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risks to Humans, Volume 93

EU Directive 1999/45/EC

U.S. Department of labor, 29CFR Part 1910.

ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices

EU Commission Directive 2009/161/EU. US OSHA HazCom (GHS) 25 May 2012. U.S. 29CFR Part 1910

ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices

IARC Monographs on the Evaluation Carcinogenic Risks to Humans World Health Organization

EU Directive 91/322/EEC and 2000/39/EC

NTP 11th Report on Carcinogens.

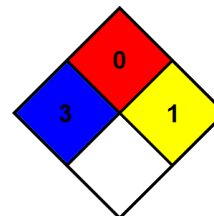
Full text of H-phrases: see section 16:

Carc. 1A	Carcinogenicity Category 1A
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H350	May cause cancer
H370	Causes damage to organs

NFPA health hazard : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



### HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur,\* Chronic Hazard - Chronic (long-term) health effects may result from repeated overexposure

Flammability : 0 Minimal Hazard

Physical : 2 Moderate Hazard

Personal Protection : E

NCEC SDS US (GHS HazCom 2012) V14\_1

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