



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** MAGNABRITE® HV  
**Version #** 06  
**Revision date** 27-January-2009  
**CAS #** Mixture  
**Synonym(s)** ALUMINUM MAGNESIUM SILICATE  
**Manufacturer** AMCOL Health & Beauty Solutions  
301 Laser Lane  
Lafayette, LA 70507 US  
safetydata@amcol.com  
<http://www.healthbeautysolutions.com/>  
General Information (800) 261-8032  
Emergency (800) 424-9300

## 2. Hazards Identification

### Potential health effects

**Routes of exposure** Inhalation.  
**Eyes** Dust or powder may irritate eye tissue.  
**Skin** Non-irritating to the skin.  
**Inhalation** Repeated or prolonged inhalation may cause toxic effects. For additional information on inhalation hazards, see Section 11 of this safety data sheet.  
**Ingestion** No significant adverse effects are expected upon ingestion of the product.

### Target organs

Lungs.

### Chronic effects

This product has the potential for generation of respirable dust during handling and use. Dust may contain respirable crystalline silica. Overexposure to dust may result in pneumoconiosis, a respiratory disease caused by inhalation of mineral dust, which can lead to fibrotic changes to the lung tissue, or silicosis, a respiratory disease caused by inhalation of silica dust, which can lead to inflammation and fibrosis of the lung tissue. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

## 3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

**Composition comments** This product contains naturally occurring crystalline silica (not listed in Annex I of Directive 67/548/EEC) in quantities less than 6%. Occupational Exposure Limits for impurities are listed in Section 8.

## 4. First Aid Measures

### First aid procedures

**Eye contact** Flush eyes immediately with large amounts of water. If irritation persists get medical attention.  
**Skin contact** No special measures required. Get medical attention if irritation develops or persists.  
**Inhalation** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get medical attention, if needed.  
**Ingestion** No special measures required. If ingestion of a large amount does occur, seek medical attention.

### Notes to physician

Provide general supportive measures and treat symptomatically.

## 5. Fire Fighting Measures

**Flammable properties** This material will not burn.

### Extinguishing media

**Suitable extinguishing media** Dry chemical, CO<sub>2</sub>, water spray or regular foam. Use any media suitable for the surrounding fires.

**Hazardous combustion products** None known.

## 6. Accidental Release Measures

<b>Personal precautions</b>	Wear a dust mask if dust is generated above exposure limits.
<b>Environmental precautions</b>	No special environmental precautions required.
<b>Methods for cleaning up</b>	Avoid the generation of dusts during clean-up. Collect dust or particulates using a vacuum cleaner with a HEPA filter. Reduce airborne dust and prevent scattering by moistening with water.

## 7. Handling and Storage

<b>Handling</b>	Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Storage</b>	No special restrictions on storage with other products. Guard against dust accumulation of this material. Keep in a cool, well-ventilated place.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### ACGIH

Impurities	Type	Value	Form
INERT OR NUISANCE DUST (SEQ250)	TWA	10 mg/m <sup>3</sup> 3 mg/m <sup>3</sup>	Inhalable particles. Respirable particles.
QUARTZ (14808-60-7)	TWA	0.025 mg/m <sup>3</sup>	Respirable fraction.

#### U.S. - OSHA

Impurities	Type	Value	Form
INERT OR NUISANCE DUST (SEQ250)	PEL	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	Total dust. Respirable fraction.
	TWA	5 mg/m <sup>3</sup> 50 mppcf 15 mppcf	Respirable fraction. Total dust. Respirable fraction.
QUARTZ (14808-60-7)	TWA	15 mg/m <sup>3</sup> 2.4 mppcf 0.3 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup>	Total dust. Respirable. Total dust. Respirable. Respirable dust.

<b>Exposure guidelines</b>	Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.
<b>Engineering controls</b>	If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn.
<b>Personal protective equipment</b>	
<b>Eye / face protection</b>	Avoid contact with eyes. Wear dust goggles. Eye wash fountain is recommended.
<b>Skin protection</b>	No special protective equipment required.
<b>Respiratory protection</b>	Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.
<b>General hygiene considerations</b>	Use good industrial hygiene practices in handling this material.

## 9. Physical & Chemical Properties

<b>Appearance</b>	Not available.
<b>Color</b>	Not available.
<b>Odor</b>	None.
<b>Odor threshold</b>	Not available.
<b>Physical state</b>	Solid.
<b>Form</b>	Granular. Powder. Pellets. or Chips.
<b>pH</b>	7 - 11

<b>Melting point</b>	Not available.
<b>Freezing point</b>	Not available.
<b>Boiling point</b>	Not available.
<b>Flash point</b>	Non-flammable
<b>Evaporation rate</b>	Not available.
<b>Flammability</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Non-explosive
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Specific gravity</b>	2.6
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Negligible
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>VOC</b>	0 % estimated
<b>Percent volatile</b>	0 % estimated

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable at normal conditions.
<b>Conditions to avoid</b>	None known.
<b>Incompatible materials</b>	None known.
<b>Hazardous decomposition products</b>	None known.
<b>Possibility of hazardous reactions</b>	Will not occur.

## 11. Toxicological Information

### Toxicological data

#### Product

#### Test Results

MAGNABRITE® HV (Mixture)

Acute Oral LD50 Rat: > 5000 mg/kg

\* Estimates for product may be based on additional component data not shown.

#### Acute effects

Acute LD50: > 5000 mg/kg, Rat, Oral

#### Chronic effects

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.)

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003)

According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

## Carcinogenicity

### IARC Monographs on Occupational Exposures to Chemical Agents: Overall evaluation

QUARTZ (14808-60-7) 1 Human carcinogen.

### US ACGIH Threshold Limit Values: A2 carcinogen

QUARTZ (14808-60-7) Group A2 Suspected human carcinogen.

### US NTP Report on Carcinogens: Known carcinogen

QUARTZ (14808-60-7) Known carcinogen.

## 12. Ecological Information

**Ecotoxicity** This material is not expected to be harmful to aquatic life.  
**Environmental effects** Ecological injuries are not known or expected under normal use.  
**Persistence and degradability** Not available.

## 13. Disposal Considerations

**Disposal instructions** Dispose in accordance with all applicable regulations. Material should be recycled if possible.

## 14. Transport Information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

## 15. Regulatory Information

**US federal regulations** OSHA Process Safety Standard: This material is not known to be hazardous by the OSHA Highly Hazardous Process Safety Standard, 29 CFR 1910.119.

### CERCLA (Superfund) reportable quantity

None

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations** WARNING: This product contains a chemical known to the State of California to cause cancer.

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

QUARTZ (14808-60-7) Listed.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

QUARTZ (14808-60-7) Listed: October 1, 1988 Carcinogenic.

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

QUARTZ (14808-60-7) Listed.

## 16. Other Information

### Further information

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

### HMIS ratings

HEALTH	*	1
FLAMMABILITY		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

### NFPA ratings

Health: 1  
Flammability: 0  
Instability: 0

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use.

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### Issue date

27-January-2009

### This data sheet contains changes from the previous version in section(s):

Product and Company Identification: Synonyms  
Composition / Information on Ingredients: Potential Compounds Formed  
Composition / Information on Ingredients: Composition comments  
Other Information: Disclaimer  
Other Information: Recommended restrictions