

Date Prepared: 04-Nov-2013 Revised: 18-Jan-2016 MINSPAR GHS 002

HMIS Ratings

Health Hazard	2	
Fire Hazard	0	
Reactivity Hazard	0	
Max. Personal Protection	E	



SAFETY DATA SHEET

TO COMPLY WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR.1910.1200 & THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product trade name(s): Minspar: 1,3,4,7,10,170,200,250

Common Name(s): Feldspar

 $\label{eq:chemical Formula: Na, K, Ca)} \textbf{AlSi}_3\textbf{O}_8 \\$

CAS Number: 68476-25-5

Physical Form: White to tan granules to powder

Recommended Uses: Non-exhaustive list: Ceramics, ceramic glazes, fiberglass compositions,

coatings, rubber, adhesives, caulks, sealants, abrasives, etc...

Restrictions on Use: Food ingredient, cosmetic ingredient

Manufacturer's Name & Address: The Quartz Corp USA Telephone: 828-765-9621

 797 Altapass Rd.
 Fax:
 828-765-6304

 Spruce Pine, NC
 Customer Service:
 800-765-8997

28777

Emergency Telephone: For Chemical Emergency Call CHEMTREC (24 hours): 1-800-424-9300

(US, Canada, Puerto Rico, Virgin Islands)

1-703-527-3887 (Outside Above Area) collect calls accepted

SECTION 2: HAZARDS IDENTIFICATION

Contains Crystalline Silica

Classification: Specific Target Organ Toxicity - Repeated Exposure Category 1 - Respiratory

Label Elements:



Signal Word: DANGER

Hazard Statements: H372: Causes damage to lung through prolonged or repeated inhalation.

Precautionary Statements: P260: Do not breathe dust.

P285: In case of inadequate ventilation wear respiratory protection. **P501**: Dispose of contents/containers in accordance with local regulation.

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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

 Ingredient
 Weight % (Approx.)
 CAS N°
 EINECS N°

 Feldspar
 90%
 68476-25-5
 270-666-7

 Quartz - Crystalline Silica
 10%
 14808-60-7
 238-878-4

SECTION 4: FIRST AID MEASURES

Inhalation

If adverse effects occur, get immediate medical attention. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give artificial respiration if needed.

Skin

Wash immediately with soap and water. Get medical attention if irritation develops or persists.

Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Ingestion

DO NOT induce vomiting. If swallowed, drink plenty of water, do NOT induce vomiting. Never make an unconscious person vomit or drink fluids. Get medical attention.

Symptoms: Immediate

eye irritation, skin irritation, respiratory tract irritation

Symptoms: Delayed

gastrointestinal effects

SECTION 5: FIREFIGHTING MEASURES

Flammable Properties

Product is non-flammable.

Use extinguishing agents appropriate for surrounding fire.

Unsuitable Extinguishing Media

None known.

Protective Equipment and Precautions for Firefighters

No hazard is expected from the normal use of this product.

Fire Fighting Measures

No hazard expected

NFPA 704M Hazard Classification: Health: 2 Flammable: 0 Reactivity: 0

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions

Keep unnecessary people away, isolate hazard area and deny entry. Wet material is slippery under foot.

Wear personal protective clothing and equipment, see Section 8.

Environmental Precautions

Avoid release to the environment.

Cleanup Methods

Collect spilled material in appropriate container for reuse or disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Avoid dust generation and accumulation. Do not use in poorly ventilated or confined spaces. Do not taste or swallow. Avoid inhalation or contact. Wash thoroughly after handling.

Conditions for Safe Storage

Store in a cool, dry place. Store in a well-ventilated area.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

Follow standard occupational hygiene control methods and procedures. Use an approved respirator if exposure limits are exceeded or if exposure limits are exceeded or if irritation develops or persists.

Component Exposure Limits:

Hazardous Ingredient	Weight % (Approx.)	CAS N°	OSHA PEL*	ACGIH TLV*
Feldspar	90%	68476-25-5	15 mg/m ³ (Total Dust) 5 mg/m ³ (Respirable Fraction)	2 mg/m ³ (Respirable Fraction)
Quartz - Crystalline Silica	10%	14808-60-7	0.1mg/m ³ (Respirable Fraction)	0.025 mg/m³ (Respirable Fraction)

^{*} Unless otherwise noted, all PEL and TLV are reported as 8 hour time weighted average (TWA).

Component Analysis

There are no biological limit values for any of this product's components.

Engineering Controls

Ventilation: Use exhaust ventilation, if required, to maintain dust concentration below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Where there is potential for airborne exposure, use of a MSHA/NIOSH or OSHA/NIOSH approved respirator is recommended.

Eyes/Face: Wear side shield safety glasses or chemical resistant safety goggles.

Glove Recommendation: Rubber gloves are recommended for prolonged exposure.

Protective Clothing: Wear appropriate chemical resistant clothing. Contaminated clothing should be removed and laundered before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Color: white to tan

Odor: Odorless

pH: 4-6 (aqueous solution)

Boiling Point: Not applicable

Decomposition: None

LEL: Not applicable

Vapor Pressure: Not applicable

Density Not applicable

Water Solubility: None

Auto Ignition: Will not ignite

Flow Point: Not applicable

VOC: None

Appearance: white to tan solid **Physical Form:** powder to granule

Odor Threshold: Not applicable
Melting Point: 1100-1450°C

Flash Point: Will not ignite
Evaporation Rate: Not applicable

UEL: Not applicable

Vapor Density (air = 1): Not applicable Specific Gravity (water = 1): ~2.6 gm/cc Coeff> Water/Oil Dist: Not applicable

Viscosity: Not applicable

Sublimation Point: Not applicable

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SECTION 10: STABILITY AND REACTIVITY

Reactivity:

No reactive hazard is expected.

Chemical Stability:

Stable at normal temperatures and pressure

Possibility of Hazardous Reactions:

Will not oxidize or polymerize.

Conditions to avoid:

None known.

Materials to Avoid (Incompatibilities):

None known.

Decomposition Products:

When exposed to high temperatures, free quartz can change crystal structure to form tridymite (above 870°C) or cristobalite (above 1470°C) which have greater health hazards than quartz. (Tridymite and cristobalite (TWA-TLV) =0.025 mg/m³.)

SECTION 11: TOXICOLOGICAL INFORMATION

Primary Route of Exposure: Skin, Eye Contact, Inhalation and Ingestion

Acute Health Hazards:

Eye contact may cause mechanical irritation.

Skin contact may aggravate existing dermatitis.

Inhalation from prolonged and continuous exposure to excessive quantities of dust may aggravate existing asthmatic or respiratory conditions.

Acute and Chronic Toxicity

May cause eye irritation, skin irritation, respiratory tract irritation, and gastrointestinal tract irritation. May cause damage to respiratory tract through prolonged or repeated exposure.

Exposure to quartz (the most stable and common form of crystalline silica) is responsible for the majority of clinically diagnosed silicosis. Silicosis is a fibronodular lung disease that occurs after occupational exposure to crystalline silica for 5 years or longer. Inhalation of quartz dusts may cause shortness of breath, limitation of chest expansion, dry cough, and a lessened capacity for work. Individuals with a pre-existing disease in, or a history of ailments involving the skin or respiratory tract, are at greater risk for developing adverse health effects when exposed to this material.

In humans, chronic intermittent exposure to quartz caused pulmonary fibrosis, cough, and difficulty breathing. Overexposure to crystalline silica may cause silicosis, a form of disabling, progressive, and sometimes fatal pulmonary fibrosis characterized by the presence of typical nodulation in the lungs. Tuberculosis frequently complicates silicosis and the risk for tuberculosis is also increased in workers exposed to silica who have no radiographic evidence of silicosis. Crystalline silica can cause silicotic lesions in such organs as the liver, spleen and bone marrow. In humans, a causal relationship exists between exposure to crystalline silica and the development of autoimmune diseases. In multi-dose studies with animals, long term inhalation of quartz affected the lungs, endocrine system, immune system and blood.

This product contains quartz (respirable) as an impurity. 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. 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 it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated. (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibers, 1997, Vol. 68, IARC, Lyon, France.)

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published:

The components of this material have been reviewed in various sources and the following selected endpoints are

Quartz - Crystalline Silica (14808-60-7)

Oral LD50 Rat 500 mg/kg

Component Analysis - LD50/LC50

Irritation/Corrosivity Data

May cause eye irritation, skin irritation, respiratory tract irritation, and gastrointestinal tract irritation.

Respiratory Sensitizer

No test data available

Dermal Sensitizer

No test data available

Carcinogenicity

Component Carcinogenicity

Feldspar - CAS N° 68476-25-5

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Quartz - Crystalline Silica - CAS N° 14808-60-7

ACGIH: A2 - Suspected Human Carcinogen IARC: Group 1 - Carcinogenic to humans

Mutagenic Data

No information available

Reproductive Effects Data

No information available

Specific Organ Toxicity - Single Exposure

Target organs include ears, skin, respiratory system, and gastrointestinal tract.

Specific Organ Toxicity - Repeated Exposure

Causes damage to eyes, skin, respiratory system, and gastrointestinal tract through prolonged or repeated exposure.

Aspiration Hazard

No data available

Medical Conditions Aggravated by Exposure

Individuals with pre-existing eye disorders, skin disorders, respiratory disorders and/or gastrointestinal disorders may have increased susceptibility to the effects of exposure.

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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available for the product

Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components

No information available for the product

Bioaccumulation

No information available for the product

Bioconcentration

This material is not believed to bioconcentrate

Biodegradation

This product is made from a naturally occurring, abundant, innocuous mineral

Persistence

This product is made from a naturally occurring, abundant, innocuous mineral

Mobility in Soil:

This product is insoluble in water

Results of PBT and vPvB Assessment

Not relevant

Other Toxicity

May affect turbidity if discharged in large quantities to lakes, streams or sewers.

SECTION 13: DISPOSAL CONSIDERATIONS

Non-hazardous waste - RCRA (40 CFR 261)

Dispose of waste materials in accordance with all local, state, and Federal requirements.

This product may not be disposed of in waterways or sewers.

SECTION 14: TRANSPORT INFORMATION

EPA Waste Number: Not regulated.

DOT Classification: Not regulated.

IMO Classification: Not regulated.

Internal UN: Not regulated.

IMDG Code: This product is not considered to be a marine pollutant.

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SECTION 15: REGULATORY INFORMATION

SARA Title III Section 302 Extremely Hazardous Substances: This product does not contain extremely hazardous subject to the reporting requirements of Section 302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 355.

SARA Title III Section 311 and 312 Health and Physical Hazard Categories per 40 CFR 370.2:

ImmediateDelayedFirePressureReactivityYesNoNoNo

SARA Section 313 Notification: This product does not contain toxic chemicals 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.

TSCA: Product is listed in January 2010 inventory, ID# 43783

CERCLA: Feldspar is not a CERCLA listed hazardous substance.

California Proposition 65: WARNING: This product may also contain extremely small amounts of one or more naturally-occurring materials known to the State of California to cause cancer, birth defects, or other reproductive harm.

NJ Special Health Hazardous Substances List [4]: Not listed/regulated under.

PA Special Hazardous Substances List: Regulated under PA Code Chapter 323.

Stockholm Convention: This product is not subject to the Stockholm Convention.

Montreal Protocol: This product is not subject to the Montreal Protocol.

Rotterdam Convention: This product is not subject to the Rotterdam Convention.

National Inventories:

DSL (Canada): Not Listed NDSL (Canada): Listed PICCS (Philippines): Listed KECL (Korea): Listed

ENCS (MITI) (Japan): Not explicitly listed under CAS number.

AICS (Australia): Listed IECSC (China): Listed EINECS (Europe): Listed

REACh Status: Exempt (Annex v.7). Product is a naturally occurring mineral.

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SECTION 16: OTHER INFORMATION

Training

Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations.

Summary of Changes

New SDS 04-Nov-2013, Revised Section 2 01-Jun-2015, Revised Classification 18-Jan-2016

Key / Legend

ACGIH American Conference of Governmental Industrial Hygienists

AICS Australian Inventory of Chemical Substances

CAS Chemical Abstract Service

CERCLA Comprehensive Environmental Response, Compensation and Liability Act

CFR Code of Federal Regulations

Chemical Transportation Emergency Center CHEMTREC

DOT Department of Transportation DSL Canadian Domestic Substances List

EINECS European Inventory of New and Existing Chemical Substances

ENCS Existing and New Substances Inventory **EPA Environmental Protection Agency FDA** Food and Drug Administration

HMIS Hazardous Materials Identification System **IARC** International Agency for Research on Cancer

IECSC Inventory of Existing Chemical Substances Produced or Imported in China

IMDG International Maritime Dangerous Goods Code

IMO International Maritime Organization **KECI** Korean Existing Chemicals Inventory

LEL Lower Explosive Limit

LOLI List Of Lists

MITI Japanese Ministry of international Trade and Industry

MSHA Mine Safety and Health Administration **NDSL** Canadian Non-Domestic Substance List

NIOSH National Institute of Occupational Safety and Health

NFPA National Fire Protection Agency

Occupational Health and Safety Administration **OSHA PBT** Persistent Bioaccumulative Toxic Chemical

Permissible Exposure Limit **PEL**

PICCS Philippine Inventory of Chemicals and Chemical Substances

RCRA Resource Conservation and Recovery Act

REACh Registration, Evaluation, Authorization and Restriction of Chemicals

RTK Right to Know

SARA Superfund Amendments and Reauthorization Act

SDS Safety Data Sheet

STOT Specific Target Organ Toxicity

TLV Threshold Limit Value **TSCA** Toxic Substances Control Act **TWA** Time Weighted Average UEL Upper Explosive Limit **United Nations**

UN

VOC Volatile Organic Content

vPvB Very Powerful Very Bioaccumulative

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Disclaimer

Such information is to the best of The Quartz Corp knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. THE QUARTZ CORP MAKES NO WARRANTY WITH RESPECT HERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

Prepared By: The Quartz Corp Technical Group.

END OF SHEET MINSPAR GHS 002