

Material Safety Data Sheet

1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Silica+ (ground silica)
OTHER/GENERIC NAMES: Silica flour, quartz
CHEMICAL NAME: Silicon Dioxide
CHEMICAL FORMULA: SiO₂
PRODUCT USE: Intended to be added to animal feed

DISTRIBUTOR:
CERESCO NUTRITION
164, Chemin de la Grande-Ligne
Saint-Urbain-Premier, JOS 1Y0
QUEBEC, CANADA

For more information call:
CERESCO NUTRITION: 1 888 427 7692

2 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS NUMBER	WEIGHT%
Quartz	14808-60-7	98%

Silica is considered dangerous when in fraction inferior to 10 microns.
Silica+ = 40 microns

3 - HAZARD IDENTIFICATION

SPECIFIC HAZARDS: Respiratory risk: Prolonged exposure to crystalline silica dust can cause silicosis risk.
MAIN SYMPTOM: Cough and shortness of breath
ENVIRONMENTAL RISK: None
PHYSICAL AND CHEMICAL RISK: None

4 - FIRST AID MEASURES

- INHALATION:** Stay calm
Expose the victim to fresh air
Consult a doctor in case of prolonged exposure
- SKIN:** Clean with water and soap
Consult a doctor if necessary
- EYES:** Immediately flush thoroughly with water, also under eyelids, at least 15 minutes
No risk.
- INGESTION:** Rinse mouth
Consult a doctor if necessary

ADDITIONAL RECOMMENDATIONS:

- Show this safety data sheet to the doctor
Treat symptomatically

5 – FIRE FIGHTING MEASURES

- SPECIFIC HAZARD:** None applicable
EXTINGUISHING MEDIA: None applicable
EXPLOSION HAZARD: None applicable
SPECIAL FIRE FIGHTING PRECAUTION/INSTRUCTION: None applicable

6 – ACCIDENTAL RELEASE MEASURES

- INDIVIDUAL CAUTION:** Wear personal protective equipment listed in section 8
Evacuate area of all unnecessary personnel.
Do not inhale dust
Avoid making dust
Ensure adequate ventilation
- ENVIRONMENTAL CAUTION:** None
- CLEANING METHOD:** Collect by suction
Eliminate product following local regulations

7 – HANDLING AND STORAGE

- STORAGE:** Keep hermetically closed in a cool, dry and well ventilated place
Capture airborne dust during manipulation of product
- HANDLING:** Wear personal protective equipment listed in section 8
Do not inhale dust
Humid or dry use with suction system
Airborne dust should be aspirated at its emission point
Handle in accordance with good industrial hygiene practices and safety instructions

8 – EXPOSURE CONTROL/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPEMENT

RESPIRATORY PROTECTION:

In case of insufficient ventilation, wear a suitable breathing apparatus

SKIN PROTECTION: Unnecessary when used normally

EYE PROTECTION: Safety glasses

ENGINEERING CONTROLS:

Use adequate ventilation to keep airborne concentrations low

ADDITIONAL RECOMMENDATIONS:

Handle in accordance with good industrial hygiene practices and safety instructions
Only use in area with air suction system

EXPOSURE GUIDELINES

INGREDIENT NAME	OSHA PEL	ACGIH TLV	NIOSH REL
Quartz			
Respirable measured as an 8-hour TWA:	10/ (%SiO ₂ +2)	0.025 mg/m ³	0.05 mg/m ³

*Silica+ is intended to be used in feed manufacturing at very low dosage (200gr/ton). Exposure to Silica+ dust is minimal with this usage.

9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	White
PHYSICAL STATE:	Solid
FORM:	Crystalline
ODOR:	None
PH:	7
BOILING POINT:	4046 F
MELTING POINT:	2912 F
FLASH POINT:	None applicable
VAPOR PRESSURE:	None applicable
VAPOR DENSITY:	None applicable
ABSOLUTE DENSITY:	2.650 g/cm ³
SOLUBILITY:	Not in water, soluble in hydrofluoric acid

10 – STABILITY AND REACTIVITY

STABILITY:	None applicable
INCOMPATIBILITY:	Oxidizing agents
SPECIFIC EFFECT:	Toxic vapor In contact with hydrofluoric acid
HAZARDOUS DECOMPOSITION PRODUCTS:	None

11 – TOXICOLOGY INFORMATION

IMMEDIATE EFFECTS:	No
LOCAL EFFECTS:	Negative
SKIN AND EYES:	Unknowed
CHRONIC EFFECTS:	Excessive exposure to dust may result in respiratory disease such as silicosis, pulmonary fibrosis, etc.
IARC:	Group 1. <u>Inhalation</u> of Crystalline silica (quartz) in <u>workplace</u> is carcinogen for humans*

*Silica+ is intended to be added to animal feed at very low dosage (200gr/ton). In our application, Silica+ is not intended to be used in workplaces such as extraction mines, material manufacturing or construction companies

12 – ECOLOGICAL INFORMATION

MOBILITY:	None
PERSISTANCE/DEGRADABILITY:	Negative
ECOTOXICITY:	Not known to be eco toxic

13 – DISPOSAL CONSIDERATIONS

GENERAL: Material should be covered to minimize generating airborne dust
RCRA: Crystalline silica (Quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR 261 et seq.

14 – TRANSPORT INFORMATION

USA – DOT.: Crystalline silica (Quartz) is not a hazardous material for purposes of transportation under the U.S. department of Transportation Table Hazardous Materials, 49 CFR 172.101.

CANADA – TMD: Crystalline silica (Quartz) is not a hazardous material for purposes of transportation under the Canadian Hazardous Material Transport.

15 – REGULATORY INFORMATION

UNITED STATES (FEDERAL AND STATE)

TSCA No.: Crystalline silica (quartz) appears on the EPA TSCA inventory under the CAS No. 14808-60-7.

RCRA: Crystalline silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR §261 et seq.

CERCLA: Crystalline silica (quartz) is not classified as a hazardous substance under regulations of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 40 CFR §302.

Emergency Planning and Community Right to Know Act (SARA Title III): Crystalline silica (quartz) is not an extremely hazardous substance under Section 302 and is not a toxic chemical subject to the requirements of Section 313.

NTP: Respirable crystalline silica, primarily quartz dusts occurring in industrial and occupational settings, is classified as Known to be a Human Carcinogen.

OSHA Carcinogen: Crystalline silica (quartz) is not listed.

California Proposition 65: Crystalline silica (airborne particles of respirable size) is classified as a substance known to the State of California to be a carcinogen.

California Inhalation Reference Exposure Level (REL): California established a chronic REL of 3 ug for silica (crystalline, respirable). A chronic REL is an airborne level of a substance at or below which no adverse health effects are anticipated in individuals indefinitely exposed to the substance at that level.

Massachusetts Toxic Use Reduction Act: Silica, crystalline (respirable size, <10 microns) is “toxic” for purposes of the Massachusetts Toxic Use Reduction Act.

Pennsylvania Worker and Community Right to Know Act: Quartz is a hazardous substance under the Act, but it is not a special hazardous substance or an environmental hazardous substance.

CANADA

WHMIS Classification: D2A

OTHER

EINECS No.: 238-878-4

EEC Label (Risk/Safety Phrases): R 48/20, R 40/20, S22, S38

IARC: Crystalline silica (quartz) is classified in IARC Group 1.

Japan MITI: All of the components of this product are existing chemical substances as defined in the Chemical Substance Control Law.

Australian Inventory of Chemical Substances: All of the components of this product are listed on the AICS inventory or exempt from notification requirements.

16 – OTHER INFORMATION

Hazardous Material Information System (HMIS):

Health	2
Flammability	0
Reactivity	0
Protective Equipment	E

* For further information on health effects, see Sections 2 and 11 of this MSDS.

National Fire Protection Association (NFPA):

Health	0
Flammability	0
Reactivity	0

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by purchase, resale, use or exposure to our silica. Customers-users of silica must comply with all.