

# HUDSON RESOURCES INC SAFETY DATA SHEET

Calcium Feldspar

Prepared according to U.S. OSHA, CMA, ANSI, Canadian WHMIS regulations

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **Calcium Feldspar**  
CHEMICAL FAMILY NAME: Aluminum Silicate  
PRODUCT USE/DESCRIPTION: Feldspar is a naturally occurring anhydrous, inorganic, igneous rock. Typically, it is a complex aluminum silicate containing varying amounts of sodium, potassium, and calcium. In this case, the material contains between 14% and 16% calcium, between 1.9% and 2.3% sodium and 0.03% and 0.30% potassium.  
U.N. NUMBER: None  
U.N. DANGEROUS GOODS CLASS: Non-Regulated Material  
SUPPLIER/MANUFACTURER'S NAME: **Hudson Resources Inc.**  
ADDRESS: 1460 – 1066 West Hastings St., Vancouver, BC, Canada V6E 3X1  
EMERGENCY PHONE NUMBER: 604-628-5002  
BUSINESS PHONE NUMBER: 604-628-5002  
DATE OF PREPARATION: January 11, 2016  
DATE OF LAST REVISION: September 24, 2019



## SECTION 2 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** This product is a white to tan powder (solid) with no odor consisting of naturally occurring minerals. Exposure to the solid product can be irritating to eyes and skin. Dust generated can be irritating to the respiratory system. It is a non-flammable product. The Environmental effects of this product have not been investigated, however it is not expected to cause any adverse effects in the environment.

US DOT SYMBOLS  
Non-Regulated Material

CANADA (WHMIS) SYMBOLS  
Complies with WHMIS 2015

HMIS RATING SYSTEM

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)		1	
FLAMMABILITY HAZARD (RED)		0	
PHYSICAL HAZARD (YELLOW)		1	
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	SEE SECTION 8		SEE SECTION 8
For Routine Industrial Use and Handling Applications			

This product does meet the definition of a hazardous substance or preparation as defined by 29 CFR 1910. 1200  
GHS Hazard Symbol:



**SIGNAL WORD:** Danger!

**INGREDIENTS DETERMINING HAZARD:**

All Ingredients

**GHS Hazard Classification(s):**

STOT RE Category 1  
Carcinogenicity Category 1B  
Skin Irritant Category 2  
Eye Irritant Category 2  
STOT SE Category 3

**HAZARD STATEMENT(S):**

Causes damage to organs through prolonged or repeated exposure  
May cause cancer  
Causes skin irritation  
Causes serious eye irritation

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May cause respiratory irritation

**PRECAUTIONARY STATEMENT(S):**

- Avoid breathing dust
- Wash skin after handling
- Use personal protective equipment as required

**HEALTH HAZARDS OR RISKS FROM EXPOSURE:**

**ACUTE:**

**INHALATION:** Inhalation of dust from this product may cause respiratory irritation. Exposure to these ingredients may cause or aggravate other lung conditions. Exposure may cause irritation to the moist mucous membranes of the nose, throat, and upper respiratory system.

**EYE CONTACT:** Direct contact may cause irritation with pain, burning and tearing.

**SKIN CONTACT:** Prolonged or repeated contact may cause irritation.

**INGESTION:** Ingestion of this product is not expected to cause gastrointestinal irritation.

**CHRONIC:** This product contains Crystalline Silica which is a known carcinogen. Avoid prolonged or repeated inhalation of dust generated by this product.

**TARGET ORGANS:**

ACUTE: Eye, Skin, Respiratory System

CHRONIC: Respiratory System

### SECTION 3 - COMPOSITION and INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS:	CAS #	EINECS #	ICSC #	Average WT %	GHS HAZARD CLASSIFICATION(S);
Feldspar	68476-25-5	270-666-7	Not Listed	95 - 99%	H319 Eye Irritant Cat 2, H335 STOT SE Cat 3
Silicon Dioxide, Quartz	14808-60-7	238-878-4	0808	1 – 5%	H340: Carcinogenicity Cat 1B, H373: STOT RE Cat 1, H319: Eye Irritant Cat 2A, H335: Respiratory Irritant Cat 3
Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).					

**NOTE:**

ALL WHMIS required information complies with WHMIS 2015

### SECTION 4 - FIRST-AID MEASURES

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and SDS to health professional with contaminated individual.

**EYE CONTACT:** If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation persists.

**SKIN CONTACT:** Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before re-use.

**INHALATION:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.

**INGESTION:** If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Pre-existing skin or respiratory problems may be aggravated by prolonged exposure.

**RECOMMENDATIONS TO PHYSICIANS:** Treat symptoms and reduce over-exposure.

### SECTION 5 - FIRE-FIGHTING MEASURES

**FLASH POINT:**

Not Flammable

**AUTOIGNITION TEMPERATURE:**

Not Applicable

**FLAMMABLE LIMITS (in air by volume, %):**

Lower (LEL): NA                      Upper (UEL) NA

**FIRE EXTINGUISHING MATERIALS:**

As appropriate for surrounding fire. Carbon dioxide, foam, dry chemical, halon, or water spray.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

This product is non-flammable with no known fire or explosion hazards.

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<p><u>Explosion Sensitivity to Mechanical Impact:</u> Not Sensitive.</p> <p><u>Explosion Sensitivity to Static Discharge:</u> Not Sensitive</p> <p><b>SPECIAL FIRE-FIGHTING PROCEDURES:</b> Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.</p>	
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### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**SPILL AND LEAK RESPONSE:** Personnel should be trained for spill response operations.

**SPILLS:** Contain spill if safe to do so. Vacuum cleaning with a HEPA filter is the preferred method for the dry fine materials. Avoid dry sweeping which creates dust. Apply water spray to prevent airborne dust. Scrape up wet material and place in an appropriate container. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

### SECTION 7 - HANDLING and STORAGE

**WORK PRACTICES AND HYGIENE PRACTICES:** As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing dusts generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

**STORAGE AND HANDLING PRACTICES:** Cutting, crushing or grinding aggregates, hardened cement, concrete or other crystalline silica-bearing materials will release respirable crystalline silica. Use all appropriate measures of dust control or suppression, and Personal Protective Equipment (PPE) described in Section 8 below. Avoid actions that cause dust to become airborne during clean-up such as dry sweeping or using compressed air. Use HEPA vacuum or thoroughly wet with water to clean-up dust. Use PPE described in Section 8 below.

### SECTION 8 - EXPOSURE CONTROLS - PERSONAL PROTECTION

**EXPOSURE LIMITS/GUIDELINES:**

Chemical Name	CAS#	ACGIH TWA	OSHA TWA
Inert Minerals	NA	10mg/m <sup>3</sup> Total Dust	15mg/m <sup>3</sup> Total Dust
Silicon Dioxide, Quartz	14808-60-7	[(10) / (%SiO <sub>2</sub> +2)] Respirable Fraction	0.1 mg/m <sup>3</sup> Respirable Fraction

Currently, International exposure limits are not established for all the components of this product. Please check with competent authority in each country for the most recent limits in place.

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below. Use local exhaust ventilation to control airborne dust. Ensure eyewash/safety shower stations are available near areas where this product is used.

*The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada. Please reference applicable regulations and standards for relevant details.*

**RESPIRATORY PROTECTION:** Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93.

**EYE PROTECTION:** Safety glasses or chemical goggles where dusting is possible. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

**HAND PROTECTION:** Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

**BODY PROTECTION:** Use body protection appropriate to prevent skin contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese

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Standards.

**SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES**

<b>PHYSICAL STATE:</b>	Solid
<b>APPEARANCE &amp; ODOR:</b>	White to tan powder (solid) with no odor
<b>ODOR THRESHOLD (PPM):</b>	None
<b>VAPOR PRESSURE (mmHg):</b>	Not Available
<b>VAPOR DENSITY (AIR=1):</b>	Not Available
<b>BY WEIGHT:</b>	Not Available
<b>EVAPORATION RATE (nBuAc = 1):</b>	Not Available
<b>BOILING POINT (C°):</b>	Not Available
<b>MELTING POINT (C°):</b>	1300 - 1350°C
<b>pH:</b>	9 – 10 in water suspension
<b>SPECIFIC DENSITY:</b>	2,6 g/cmN
<b>SOLUBILITY IN WATER (%):</b>	Negligible
<b>VOC:</b>	None

**SECTION 10 - STABILITY and REACTIVITY**

**STABILITY:** Product is stable

**DECOMPOSITION PRODUCTS:** When heated to decomposition this product produces various vapors.

**MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:** None known

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Dust generation.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**TOXICITY DATA:** Toxicity data is not available:

Slightly hazardous in case of skin contact (irritant) Symptoms of Exposure: Dust may cause eye, nasal or bronchial irritation

**SUSPECTED CANCER AGENT:** Product does contain ingredients that are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is considered to be, or suspected to be a cancer-causing agent by these agencies.

**This product contains Crystalline Silica which is a known carcinogen**

**Inhalation (chronic):** Risk of injury depends on duration and level of exposure.

Silicosis: This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a seriously disabling and fatal lung disease. See Note to Physicians in Section 4 for further information.

Crystalline silica is classified by IARC and NTP as a known human carcinogen.

Some studies show that exposure to respirable crystalline silica (without silicosis) or Disease: that the disease silicosis may be associated with the increased incidence of several autoimmune disorders such as scleroderma (thickening of the skin), systemic lupus erythematosus, rheumatoid arthritis and diseases affecting the kidneys.

Tuberculosis: Silicosis increases the risk of tuberculosis.

Renal Disease: Some studies show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

**IRRITANCY OF PRODUCT:** Contact with this product can be irritating to exposed skin and eyes.

**SENSITIZATION OF PRODUCT:** This product is not considered a sensitizer.

**REPRODUCTIVE TOXICITY INFORMATION:** No information concerning the effects of this product and its components on the human reproductive system.

**SECTION 12 - ECOLOGICAL INFORMATION**

**ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.**

**ENVIRONMENTAL STABILITY:** Not expected to cause adverse effects in the environment.

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**EFFECT OF MATERIAL ON PLANTS or ANIMALS:** No evidence is currently available on this product's effects on plants or animals.

**EFFECT OF CHEMICAL ON AQUATIC LIFE:** No evidence is currently available on this product's effects on aquatic life.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

**PREPARING WASTES FOR DISPOSAL:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

**SECTION 14 - TRANSPORTATION INFORMATION**

**US DOT; IATA; IMO; ADR:**

**THIS PRODUCT IS NOT HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.**

**PROPER SHIPPING NAME:** Non-Regulated Material

**HAZARD CLASS NUMBER and DESCRIPTION:** None

**UN IDENTIFICATION NUMBER:** None

**PACKING GROUP:** None

**DOT LABEL(S) REQUIRED:** None

**NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2004):** None

**MARINE POLLUTANT:** None of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

**U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:**

This product is not classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101.

**TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:**

This product is not classified as Dangerous Goods, per regulations of Transport Canada.

**INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):**

This product is not classified as Dangerous Goods, by rules of IATA:

**INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:**

This product is not classified as Dangerous Goods by the International Maritime Organization.

**SECTION 15 - REGULATORY INFORMATION**

**UNITED STATES REGULATIONS**

**SARA REPORTING REQUIREMENTS:** This product is not subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: None

**TSCA:** All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.


**SARA 311/312:**

Acute Health: Yes      Chronic Health: No      Fire: No      Reactivity: No

**U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

**U.S. CERCLA REPORTABLE QUANTITY (RQ):** None

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):** One or more of the ingredients may be on the California Proposition 65 Chemical lists.

 **WARNING!** This product can expose you to chemicals which are known to the State of California to cause cancer or reproductive harm. For more information, go to [WWW.P65Warning.ca.gov](http://WWW.P65Warning.ca.gov).

**CANADIAN REGULATIONS:**

**CANADIAN DSL/NDL INVENTORY STATUS:** All of the components of this product are on the DSL Inventory

**CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:** No component of this product is on the CEPA First Priorities Substance Lists.

**CANADIAN WHMIS CLASSIFICATION and SYMBOLS:** Complies with WHMIS 2015

**INTERNATIONAL CHEMICAL INVENTORIES:**

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac:	Listed or Exempt from Listing
Australian Inventory of Chemical Substances (AICS):	Listed or Exempt from Listing

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Korean Existing Chemicals List (ECL):	Listed or Exempt from Listing
Japanese Existing National Inventory of Chemical Substances (ENCS):	Listed or Exempt from Listing
Philippines Inventory of Chemicals and Chemical Substances (PICCS):	Listed or Exempt from Listing
Swiss Giftlist List of Toxic Substances:	Listed or Exempt from Listing
U.S. TSCA:	Listed or Exempt from Listing

**SECTION 16 - OTHER INFORMATION**

**PREPARED BY:** Paul Eigbrett

GHS MSDS Compliance PLUS

**Disclaimer:** To the best of **Hudson Resources Inc.** knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type either express or implied are provided. The information contained herein relates only to this specific product.

End of SDS Sheet