



100 Mansell Court East, Suite 300; Roswell, GA 30076
 Telephone (770) 594-0660 Fax: (770) 645-3460
 Customer Service: (800) 814-4538

MATERIAL SAFETY DATA SHEET

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name(s): Minspar 250
Common Name(s): Feldspar
Chemical Formula: (Na,K,Ca)AlSi₃O₈
CAS Number: 68476-25-5
Physical Form: White to tan granules or powder

Manufacturer's Name & Address: K-T Feldspar Corporation, 100 Mansell Court East, Suite 300; Roswell, GA 30076

Emergency Telephone: For Chemical Emergency Spill, Leak, Fire, Exposure or Accident Call CHEMTREC Day or Night. DOMESTIC NORTH AMERICA (800) 424-9300 INTERNATIONAL, CALL (703) 527-3887 (collect calls accepted)

Section 2 - HAZARDS IDENTIFICATION

<u>Ingredient</u>	<u>Wt. % (Approx.)</u>	<u>CAS No.</u>	<u>OSHA PEL*</u>	<u>ACGIH TLV*</u>
Feldspar	~87%-93%	68476-25-5	None Established	None Established
Crystalline Silica, Quartz	7%-13%	14808-60-7	0.1 mg/m ³ Resp.	0.025 mg/m ³ Resp.
Water	0.1%	7732-18-5		

* Unless otherwise noted, all PEL and TLV values are reported as 8 hour time weighted averages (TWA).

Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Appearance: White to tan granules or powder

Primary Routes of Entry: Skin contact, eye contact, ingestion, inhalation

Target Organs: Eye, skin and lungs

Medical Conditions Aggravated by Exposure: Skin contact may aggravate existing dermatitis. Breathing excessive quantities of Feldspar dust may aggravate pre-existing respiratory conditions.

Potential Health Effects:

Eye Contact: This product may produce irritation upon contact with the eye. See also Section 4 below for first aid measures.

Skin Contact: Prolonged or repeated exposure may cause skin irritation. Feldspar is not expected to be absorbed through the skin in harmful amounts or to produce an allergic skin reaction. See also Section 4 below for first aid measures.

Ingestion: No adverse effect is expected. If ingested, seek medical advice. See also Section 4 below for first aid measures.

Inhalation: Inhalation of excessive quantities of Feldspar dust may irritate the respiratory tract. See also Section 4 below for first aid measures. Prolonged exposure to respirable Feldspar dust without the use of appropriate respiratory equipment could adversely affect respiratory function including fibrogenic response.

Sub chronic, Chronic: No applicable information was found concerning any potential health effects resulting from sub chronic exposure to Feldspar. The product contains crystalline silica as an impurity. Chronic exposure by inhalation can cause silicosis and/or cancer.

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Section 4 - FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with plenty of water. Seek medical aid if necessary.
Skin Contact: Wash affected skin areas thoroughly with soap and water. Seek medical aid if necessary.
Inhalation: If excessive exposure by inhalation is suspected, remove to fresh air. If necessary, a MSHA/NIOSH or OSHA/NIOSH approved respirator is recommended. Seek medical aid if necessary.
Ingestion: If ingested, do not induce vomiting. If conscious, drink two glasses of water. Seek medical aid if necessary.

Section 5 - FIRE FIGHTING MEASURES

Explosion Data: Not Explosive

Flammability: Not Flammable or Combustible

Extinguishing Media: Product will not burn.

Use appropriate extinguishing media for packaging material if applicable.

Section 6 - ACCIDENTAL RELEASE MEASURES

Material is inert and nonreactive. Vacuum, pump or scoop spilled material into containers for reclaiming or disposal. If excessive dust is generated, provide adequate ventilation and use proper respiratory and personal protective equipment. MSHA/NIOSH or OSHA/NIOSH approved respirator recommended. Spilled materials may cause slippery conditions when wet. Care should be exercised when walking on spills on floors or concrete pads. No neutralizing chemicals required.

Section 7 - HANDLING AND STORAGE

Storage in a cool, dry location is recommended. Minimize dust generation & accumulation. Avoid confined spaces and areas with poor ventilation. Avoid eye and skin contact. Do not ingest this product. Avoid inhalation of product dusts. Wash thoroughly after handling.

Section 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Hazardous Ingredient</u>	<u>Weight% (Approx.)</u>	<u>CAS No.</u>	<u>MSHA PEL</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Feldspar	~87%-93%	68476-25-5		None Established	None Established
Crystalline Silica, Quartz	7%-13%	14808-60-7	0.1 mg/m ³ Resp.	0.1 mg/m ³ Resp.	0.025 mg/m ³ Resp.

The following general hygiene considerations are recognized as common good industrial hygiene practices. Minimize contact or exposure to this product whenever possible. Avoid breathing dust. Avoid skin and eye contact. Wash thoroughly after handling and before eating or drinking.

Respiratory Protection: If respirator is required, use of a MSHA/NIOSH or OSHA/NIOSH approved respirator is recommended.
Ventilation: Use exhaust ventilation, if required, to maintain dust concentration below recommended exposure limits.
Protective Equipment: Wear side shield safety glasses. Rubber gloves are recommended for prolonged exposure.

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Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid	Boiling Point:	Not Applicable
Appearance & Odor:	White to tan granules or powder	Freezing Point:	Not Applicable
Odor Threshold:	Unknown	Decomposition Point:	Not Applicable
pH (Aqueous Suspension):	4.0 - 6.0	Vapor Pressure:	Not Applicable
Specific Gravity:	~2.6	Vapor Density:	Not Applicable
% Solubility in Water:	Negligible	Partition Coefficient:	Not Applicable
Melting Point:	1100-1450°C	Evaporation Rate:	Not Applicable
LEL:	Not Applicable	Flash Point:	Not Applicable
UEL:	Not Applicable	Auto-Ignition:	Not Applicable
Hazardous Combustion Products:	None	Explosion Data- Sensitivity to Mechanical Impact:	Not Applicable
Explosion Data- Sensitivity to Static Discharge:	Not Applicable		

Section 10 - STABILITY AND REACTIVITY

Chemically Stable? Yes No
Compatible with Other Substances? Yes No
Conditions to Avoid: None known
Incompatibility (Materials to Avoid): None, inert and nonreactive.
Possibility of Hazardous Reactions: None known
Hazardous Decomposition Products/By-Products: Feldspar is stable under normal conditions. When exposed to high temperatures, free quartz can change crystal structure to form tridymite (above 870°C) or cristobalite (above 1470°C) which have higher health hazards than quartz. (Tridymite and cristobalite (TWA-TLV) = 0.025 mg/m³).
Hazardous Polymerization: Will not occur.

Section 11 - TOXICOLOGICAL INFORMATION

Feldspar - CAS No. 68476-25-5

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.
No adverse affects expected when ingested.

Feldspar - Chronic Health Hazards*: LD50 (oral and dermal): Not Available LC50 (inhalation): Not Available

Carcinogenicity*: NTP? No

IARC*? No

OSHA*? No

Mutagenicity: None known

Teratogenicity: None known

Reproductive Effects: None known

Crystalline Silica, Quartz CAS No. 14808-60-7

Acute Health Hazards:

Primary Routes of Entry: Skin contact, eye contact, ingestion, inhalation

Eye contact may cause mechanical irritation.

Skin contact may aggravate existing dermatitis.

Inhalation from prolonged and continuous exposure to excessive quantities of dust may cause silicosis or cancer.

Crystalline Silica, Quartz - Chronic Health Hazards*: LD50 (oral and dermal): Not Available LC50 (inhalation): Not Available

Carcinogenicity*: NTP? Yes

IARC*? Group 1

OSHA*? No

Mutagenicity: Not Available

Teratogenicity: Not Available

Reproductive Effects: Not Available

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This product typically contains crystalline silica (quartz sand) above 0.1% as a naturally occurring impurity. The International Agency for Research on Cancer (IARC) has concluded that "crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group I)." It also noted that carcinogenicity was not detected in all industrial circumstance studies, and may be dependent on external factors affecting its biological activity or distribution of its polymorphs. (See IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Volume 68 (1997).) Exposure to respirable silica has also been associated with silicosis, scleroderma, and nephrotoxicity. (See Occupational Lung Disorders, Third Edition, Chapter 12 (1994) and American Journal of Respiratory and Critical Care Medicine, Volume 155, pp 761-765 (1997).)

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity: No data available. No adverse ecological effects are expected. May affect turbidity of water if discharged in large quantities to lakes or streams.

Mobility: This product has negligible solubility in water.

Persistence and degradability: This product is made from a naturally occurring, abundant, innocuous mineral.

Bioaccumulative potential: No data available. This product is not expected to accumulate in biota.

Section 13 - DISPOSAL CONSIDERATIONS

Under RCRA (40 CFR 261) Feldspar is a non-hazardous waste. Dispose of waste material in accordance with all local, state and Federal requirements. (Recommendation: bury under 4 feet of top soil.)

Section 14 - TRANSPORT INFORMATION

DOT Classification: Not Regulated

IATA Classification: Not Regulated

IMO Classification: Not Regulated

Internal UN: Not Regulated

Section 15 - REGULATORY INFORMATION

CERCLA: Feldspar is not a CERCLA listed hazardous substance.

SARA Title III Section 302 Extremely Hazardous Substances: This product does not contain extremely hazardous substances 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:

<u>Immediate</u>	<u>Delayed</u>	<u>Fire</u>	<u>Pressure</u>	<u>Reactivity</u>
Yes	Yes	No	No	No

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 as ID#: 43783; January 2010 inventory.

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: Not listed/regulated under

RoHS: Contains no substances in RoHS at or above reportable limits

Date Prepared: 04/03/2006

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REACH Status: Exempt. Product is a naturally occurring mineral

SVHC: Contains no substances on the current SVHC list

EINECS (EU): EC#: 270-666-7; 15 June 1990

VOC Content: Not applicable

National Inventories:

DSL (Canada): NDSL (Part I, January 31, 1998)

PICCS (Philippines): Listed

KECL (Korea): Listed

ENCS (METI) (Japan): Not explicitly listed under CAS number

AICS (Australia): Listed

IECSC (China): Listed

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Section 16 - OTHER INFORMATION

While this information and recommendations set forth herein are believed to be accurate as of the date hereof, IMERYS NORTH AMERICA CERAMICS MAKES NO WARRANTY WITH RESPECT HERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

IMERYS is a business name that includes Imerys North American Ceramics of which K-T Feldspar Corporation is a member. Registered in the USA. Registered Office: 100 Mansell Court East, Suite 300, Roswell, GA 30076.

HMIS Ratings

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

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

References:

Am. Rev. Respir. Dis. 1983; 127:215-220; 231-253; 141-142; Doc. Thres. Limit Values and Bio. Exp. Ind., Sixth Edition, 1991: OSHA PEL-29 C.F.R. 1910.1000.

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