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MSDS

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAMES: SP-G, F-20, G-20, G-40, G-200, G-250, G-325, NC-4, FELEX (VARIOUS GRADES)

CHEMICAL NAME Feldspar (CAS No. 68476-25-5)

PRODUCER:

Feldspar Corporation
1040 Crown Pointe Parkway - Suite 270
Atlanta, GA 30338

TELEPHONE NUMBERS: (Emergency and Information)

Telephone: (770) 392-8660 8am - 5pm EST M-F
Fax: (770) 392-8670

MSDS NO. 9801 --- DATE PREPARED: January 1, 1993

2. HAZARDOUS INGREDIENTS

Free Silica (Crystalline Quartz), Formula: SiO₂, Typically 6-10%, CAS No. 14808-60-7

Feldspar is a naturally occurring anhydrous, inorganic, igneous rock. It is a complex aluminum silicate containing varying amounts of sodium, potassium and calcium. Formula: (Na, K, Ca) AlSi₃O₈-SiO₂

3. PHYSICAL DATA

BOILING POINT: Not Applicable
VAPOR PRESSURE: Not Applicable
SPECIFIC GRAVITY: 2.60-2.65
MELTING POINT: 1100-1450 C
SOLUBILITY IN WATER: Negligible
PERCENT VOLATILE: Not Applicable
ODOR AND APPEARANCE: Earthy smell when wet. White to tan granules and/or powder.

4. FIRE AND EXPLOSION DATA

Non-flammable and non-explosive.

5. HEALTH HAZARD INFORMATION

OSHA PEL : CRYSTALLINE QUARTZ (Respirable) 0.1 milligrams per cubic meter (TWA-TLV)
ACGIH TLV: CRYSTALLINE QUARTZ (Respirable) 0.1 milligrams per cubic meter (TWA-TLV)
NIOSH TWA: CRYSTALLINE QUARTZ (Respirable) 0.05 mg/m³

HAZARD BY ROUTS OF EXPOSURE:

EYE: Inflammation of eye tissue may occur from overexposure.

SKIN/CONTACT ABSORPTION: Inflammation from contact with open cuts may occur.

SIGNS AND SYMPTOMS ASSOCIATED WITH EXPOSURE OVER THE TLV:

Short Term: Shortness of breath, coughing associated with inhalation of dust.

Long Term: May cause silicosis, a chronic disease of the lungs marked by acute fibrosis; may cause cancer.

INHALATION: WARNING: These products contain crystalline silica. Repeated, prolonged inhalation of dust may cause delayed lung injury which may result in silicosis or pneumoconiosis. The International Agency For Research On Cancer in its publication, "IARC Monographs On The Evaluation Of The Carcinogenic Risk To Humans - Silica, Some Silicates, Coal Dust and Para-aramid Fibrils" - Volume 68, 1997, has concluded that there is sufficient evidence for the carcinogenicity of crystalline silica in humans, and has, therefore, classified crystalline silica in Group 1, carcinogenic to humans. The National Toxicology Program's ("NTP's") Sixth Annual Report on Carcinogens, 1991, lists crystalline silica (respirable) as a substance which may reasonably be anticipated to be a carcinogen. In humans, a number of studies have found an association between lung cancer and exposure to dust containing respirable crystalline silica. In many of these studies, though not all, lung cancer risks were elevated and could not be explained by confounding factors such as cigarette smoking or arsenic or radon inhalation. While the IARC working group concluded there was sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or crystobalite, it noted that carcinogenicity in humans was not detected in all circumstances studied. NOTE: The State of California requires the following statement: "Airborne particles of respirable size of crystalline silica are known to the State of California to cause cancer."

INGESTION: Nausea may result from accidental ingestion. May cause cancer.

EMERGENCY/FIRST AID PROCEDURES:

INHALATION: Move to fresh air; consult physician and/or obtain competent medical assistance as necessary.

INGESTION: Consult physician and/or obtain competent medical assistance.

EYE CONTACT: Flush with water; consult physician and/or obtain competent medical assistance as necessary.

SKIN CONTACT: Wash thoroughly with water.

6. REACTIVITY DATA

STABILITY: Feldspar is a stable material under ordinary conditions.

INCOMPATIBILITY: None known.

HAZARDOUS POLYMERIZATION: Not known to occur.

7. SPILL OR LEAK PROCEDURES

Steps To Be Taken If Material Is Spilled or Released: If uncontaminated, recover and reuse. If contaminated, collect in suitable containers for disposal. Use appropriate method to avoid creating dust. Avoid breathing dust. Wear a NIOSH/MSHA/OSHA approved respirator.

Waste Disposal Method: May be buried in approved land disposal facility in accordance with Federal, State, and local regulations. Feldspar is not a hazardous waste under RCRA (40 CFR Part 261). Feldspar is not regulated by DOT.

8. CONDITIONS FOR SAFE USE

Ventilation: Local exhaust required for dust removal. Refer to OSHA 1910.24, ASTM, and/or ANSI Standards. Do not exceed OSHA PEL or ACGIH TLV.

Respiratory Protection: Use NIOSH/MSHA/OSHA approved respirator if dust is present.

Eye Protection: Optional, but recommended. NIOSH recommends against wearing contact lenses when working with crystalline silica.

Protective Gloves: Optional, but recommended.

9. SPECIAL PRECAUTIONS

1. Do not breathe dust.
2. Avoid creating dust in closed areas.
3. Use adequate ventilation as recommended by NIOSH/MSHA/OSHA for crystalline silica.

10. OTHER RELATED INFORMATION

1. NPCA/CPMA HMIS Ratings:

Health (2)
Flammability (0)
Reactivity (0)
Personal Protection (E)

2. Feldspar is not hazardous under DOT Regulations.

3. Government regulations require that personnel working with crystalline silica receive appropriate training in safe work habits, respiratory protection and health risks.

The information and data contained herein are believed to be accurate, but the manufacturer makes no warranty with respect thereto and disclaims responsibility for reliance thereon. This data relates only to the specific material described herein, and does not relate to use in connection with any other materials or in any process.

The Feldspar Corporation makes no warranties, express or implied, concerning this product. No warranty of fitness for any particular purpose is made, and we assume no responsibility whatever for any use of this product. This product should be used by properly trained personnel, and in compliance with applicable health and safety laws and regulations.

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Feldspar Corporation
1040 Crown Pointe Parkway
Suite 270

MSDS

Atlanta, GA 30338

Telephone: (770) 392-8660

Fax: (770) 392-8670

E-mail: sales@zemex.com

Web page by: CGLink, Inc., 4/98

NC-4 FELDSPAR

Description: NC-4 feldspar is a high quality, white, synthetic, all-silicon alkali-free ground, 100 mesh and 150 mesh, for ceramic applications. Carefully selected and processed for quality, NC-4 feldspar offers high alkali content and low water content per unit of alumina. Its uniform particle size follows the product's specification.

For additional information on this product, visit our website at www.feldspar.com. Please contact your distributor or contact us directly at the address above for more information.

Typical Analysis

Chemical Analysis	170 Mesh	300 Mesh	150 Mesh
SiO ₂	63.15%	63.16%	63.15%
Al ₂ O ₃	18.85%	18.86%	18.85%
Fe ₂ O ₃	0.07%	0.07%	0.07%
CaO	1.40%	1.40%	1.40%
MgO	Trace	Trace	Trace
K ₂ O	4.10%	4.10%	4.10%
Na ₂ O	5.92%	5.92%	5.92%
Loss	0.00%	0.00%	0.00%

Class		170 Mesh	300 Mesh	150 Mesh
Surface Analysis (Dens.)	+200 Mesh	1.5%	0.30%	0.35%
	+325 Mesh	11.2%	0.90%	1.50%
Avg Particle Size	(microns)	96.75	12.00	10.85
Surface Area	(m ² /g)	1.88	1.29	1.45
Swelling Capacity	(g/g)		2.60	
Bulk Density (lb/ft ³)	Loose		62	
	Packed		74	

Availability: Bulk or 50 lb Bags
Shipping Point: Fort Lauderdale, North Carolina

Rev. 04/01/03

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This product is not intended for use in food, drug, or medical applications. For more information, please contact your distributor or contact us directly at the address above.

<http://www.feldspar.com/minerals/msds1.html>

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NC-4 FELDSPAR

Description: NC-4 feldspar is a high quality sodium / potassium / calcium aluminum silicate ground to 170, 200 and 250 mesh, for ceramic applications. Carefully beneficiated and controlled for quality, NC-4 feldspar offers high alkali content and low iron oxide content per unit of alumina. Its various grinds are tailored for specific applications.

If the following data is not formatted properly, then your browser does not support tables. Please upgrade your browser or contact us directly and we will fax you the data you need.

Typical Analysis			
Chemical Analysis	170 Mesh	200 Mesh	250 Mesh
SiO ₂	68.15%	68.15%	68.15%
Al ₂ O ₃	18.85%	18.85%	18.85%
Fe ₂ O ₃	0.07%	0.07%	0.05%
CaO	1.40%	1.40%	1.40%
MgO	Trace	Trace	Trace
K ₂ O	4.10%	4.10%	4.10%
Na ₂ O	6.82%	6.82%	6.82%
LOI	0.09%	0.09%	0.08%

Other	170 Mesh	200 Mesh	250 Mesh
Screen Analysis (Cum.)	+200 Mesh	1.92%	0.69%
	+ 325 Mesh	11.97%	6.65%
Avg Particle Size	(microns)	14.06	12.60
Surface Area	(m²/g)	1.26	1.29
Specific Gravity	(g/cc)	2.65	
Bulk Density (lb/ft³)	Loose	62	
	Packed	74	

Availability: Bulk or 50 lb bags
Shipping Point: Spruce Pine, North Carolina

Revision: January 1998

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