

MSDS Code: F5000

**SELECTRA™ SULF-X CNG1**

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**NFPA Classification:****Health:** 1  
**Flammability:** 0  
**Instability:** 1  
**Special Hazards:****HMIS Classification:****Health:** 1\*  
**Flammability:** 0  
**Reactivity:** 1  
**Personal Protection:** E

\* Indicates possible chronic health effects.

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****Chemical Name:** Sodium Aluminosilicate**CAS No:** 1318-02-1**Product Use:** Adsorbent.**Supplier:** ENGELHARD CORPORATION  
CHEMICAL CATALYSTS, PROCESS TECHNOLOGIES  
101 WOOD AVENUE  
ISELIN, NJ 08830-0770  
1-800-336-8559 OR 1-800-321-2747For Chemical Emergency Call CHEMTREC (24 hours):  
1-800-424-9300 (US, Canada, Puerto Rico, Virgin Islands)  
1-703-527-3887 (Outside Above Area)**2. COMPOSITION / INFORMATION ON INGREDIENTS**

<b><u>Ingredient</u></b>	<b><u>Weight in Product (%)</u></b>	<b><u>Notes</u></b>
Sodium Silicoaluminate (Type X Zeolite) 1318-02-1	100	None.
Silica, Crystalline (Quartz) 14808-60-7	< 3.5	None.

**3. HAZARDS IDENTIFICATION****Emergency Overview:**

**Color:** Light brown or white  
**Form:** Beads or extrudates  
**Odor:** Odorless  
**Flash Point, °C:** Not Applicable

**Most Important Hazards:** Contains SUSPECT CANCER HAZARD. Risk of cancer depends on route, duration and level of exposure. Overexposure to dust may cause lung damage. Irritating to respiratory system. Prolonged or repeated contact may cause skin irritation.

**Potential Health Effects:**

**Inhalation:** Exposure to dust particles generated from this material causes irritation of the respiratory tract. May cause disabling, progressive pulmonary fibrosis (silicosis) due to crystalline silica. Symptoms include cough, dyspnea, wheezing, and impairment of pulmonary function. Progression of symptoms can continue after dust exposure ceases.

**Ingestion:** No adverse health effects are expected from swallowing.

**Skin Contact:** Prolonged or repeated contact may cause skin irritation.

**Eye Contact:** Large amounts of dust may cause mechanical irritation.

**Carcinogenicity:**

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>NTP (Y/N)</u>	<u>IARC (See Notes)</u>	<u>OSHA (Y/N)</u>	<u>ACGIH (See Notes)</u>
Sodium Silicoaluminate (Type X Zeolite) 1318-02-1	100	N	N3	N	N
Silica, Crystalline (Quartz) 14808-60-7	< 3.5	Y	Y1	N	A2

**Notes:**

IARC: Y1=Carcinogenic to humans; Y2A=Probably carcinogenic to humans; Y2B=Possibly carcinogenic to humans; N3=Not classifiable as to its carcinogenicity; N=Not studied or probably not carcinogenic.

ACGIH: A1=Confirmed human carcinogen; A2=Suspected human carcinogen; A3=Confirmed animal carcinogen; A4=Not classifiable as a human carcinogen; A5=Not suspected as a human carcinogen; N=Not studied.

**Chronic Health Hazards:** Refer to Carcinogenicity and Potential Health Effects.

**Aggravated Medical Conditions:** Pulmonary disorders.

**4. FIRST AID MEASURES**

**Inhalation:** Move person to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

**Ingestion:** Procedures normally not needed. If large quantities are ingested, seek medical advice.

**Skin Contact:** Wash with soap and water. Get medical attention if irritation persists.

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

#### 5. FIRE FIGHTING MEASURES

**Flash Point, °C:** Not Applicable  
**Autoignition Temperature, °C:** Not Applicable  
**Lower Explosive Limit, %:** Not Applicable  
**Upper Explosive Limit, %:** Not Applicable

**Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Fire Fighting Procedures:** Positive pressure, self-contained breathing apparatus. Wear full protective clothing.

**Unusual Fire and Explosion Hazards:** Not a fire or explosion hazard.

#### 6. ACCIDENTAL RELEASE MEASURES

**Spill Procedures:** Contain spillage. Scoop up or vacuum into a container for reclamation or disposal. Avoid dusting.

#### 7. HANDLING AND STORAGE

Keep container closed.  
Store in a cool, dry location away from incompatible materials.  
Practice good housekeeping.  
Do not breathe dust.  
Minimize dust generation and exposure.  
Avoid contact with eyes, skin and clothing.  
Use only with adequate ventilation.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>OSHA PEL:</u>	<u>ACGIH TLV:</u>
Sodium Silicoaluminate (Type X Zeolite) 1318-02-1	100	None Established	None Established
Silica, Crystalline (Quartz) 14808-60-7	< 3.5	0.1 mg/m <sup>3</sup> (Respirable dust)	0.05 mg/m <sup>3</sup> (Respirable fraction)

Unless otherwise noted, all values are reported as 8-hour Time-Weighted Averages (TWAs) and total dust (particulates only). All ACGIH TLVs refer to the 2000 standards. Unless otherwise noted, all OSHA PELs refer to 29 CFR Part 1910 Air Contaminants: Final Rule, January 19, 1989.

**Personal Protective Equipment:** Safety glasses with side shields. Wear suitable gloves.

**Respiratory Protection:** Use a NIOSH/MSHA approved respirator as necessary to protect from: dust. If respiratory protection is used, follow all requirements for respiratory programs set forth in OSHA regulations (29 CFR 1910.134).

**Ventilation:** General ventilation. Local exhaust ventilation is recommended to control exposures to within applicable limits.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form:** Beads or extrudates  
**Color:** Light brown or white  
**Odor:** Odorless  
**Melting Point, °C:** > 1600  
**Bulk Density:** 630-850kg/m<sup>3</sup>  
**Solubility (in water):** Insoluble  
**pH:** 8-11 (Aqueous sludge)

#### 10. STABILITY AND REACTIVITY

**Stability Data:** Stable  
**Conditions/Hazards to Avoid:** Water.  
**Incompatibility (Materials to Avoid):** Strong acids or alkalis. Strong oxidizing agents. Olefins. Adsorbable substances.  
**Hazardous Reactions:** Contact with water may produce significant amounts of heat.  
**Hazardous Decomposition Products:** None anticipated  
**Polymerization:** None anticipated.  
**Polymerization - Avoid:** None anticipated.

#### 11. TOXICOLOGICAL INFORMATION

**Information on Product:**  
No data available.

**Information on Components:**

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>Acute Toxicity - Oral</u>	<u>Acute Toxicity - Inhalation</u>	<u>Acute Toxicity - Dermal</u>	<u>Acute Toxicity - Other</u>
Sodium Silicoaluminate (Type X Zeolite) 1318-02-1	100	Not Available	Not Available	Not Available	Not Available
Silica, Crystalline (Quartz) 14808-60-7	< 3.5	Not Available	Not Available	Not Available	Not Available

**12. ECOLOGICAL INFORMATION**

**Information on Product:**

**Environmental Fate:** No data available.  
**Ecotoxicological Information:** No data available.

**13. DISPOSAL CONSIDERATIONS**

**US EPA Waste Number:** Not Regulated  
**Disposal of Waste Method:** Federal, state and local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected. All waste materials should be reviewed to determine the applicable hazards (testing may be necessary).

**14. TRANSPORT INFORMATION**

**International Transport Regulations:**

**UN/PIN Number:** Not Regulated

**US Transportation Regulations:**

**DOT Classification:** Not Regulated

**Canadian Transportation of Dangerous Goods (TDG):**

**TDG Classification:** Not Regulated

**15. REGULATORY INFORMATION**

**International Inventories:**

**United States:** This product or its ingredients are listed on or compliant with the TSCA Inventory.  
**Canada:** This product or one or more of its ingredients are NOT REGISTERED in Canada.  
**Europe:** This product or its ingredients are listed on or compliant with EINECS.  
**Japan:** This product or its ingredients are listed on or compliant with MITI.  
**Australia:** This product or its ingredients are listed on or compliant with AICS.  
**Korea:** This product or its ingredients are listed on or compliant with the ECL.

**US Federal Regulations:**

<u>Ingredient</u>	<u>Weight in Product (%)</u>	<u>Subject to SARA 313 Reporting</u>
Sodium Silicoaluminate (Type X Zeolite) 1318-02-1	100	No
Silica, Crystalline (Quartz) 14808-60-7	< 3.5	No

**SARA 311/ 312 Hazard Categories:**

Acute Health Hazard                      Chronic Health Hazard

**CAA 602 Ozone Depleting Substances (ODS):**

This product neither contains nor is manufactured with an ozone depleting substance subject to the labeling requirements of the Clean Air Act Amendments 1990 and 40 CFR Part 82.

**US State Regulations:**

**California Proposition 65 - Carcinogen:**

WARNING: This product contains chemicals known to the State of California to cause cancer.

**Canadian Regulations:**

**WHMIS Classification:**

Class D Division 2 Subdivision A

Class D Division 2 Subdivision B

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

**16. OTHER INFORMATION**

Revision number: 1

Prepared By: Engelhard Corporate Environmental Health & Safety Group

The information in this Material Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for persons working with or handling this product. The information presented in the MSDS is premised upon proper handling and anticipated uses, and is for the material without chemical additions/alterations. We believe this information to be reliable and up-to-date as of the date of publication, but make no warranty that it is. Additionally, if this Material Safety Data Sheet is more than three years old, please contact the supplier at the phone number listed in Section 1 to make certain that this sheet is current. Copyright Engelhard Corporation. License granted to make unlimited copies for internal use only. End of MSDS.....