



SAFETY DATA SHEET
(Complies with OSHA 29 CFR 1910.1200)

SECTION I: PRODUCT IDENTIFICATION

Sand Express
1083 Kleimann Lane
Columbus, TX 78934

Emergency Telephone Number
(979) 732-8210

SDS SE3
Revision: Nov-15

Product

Dakota Black Coal Slag

PRODUCT USE: AGGREGATES FOR USE IN SAND BLASTING

SECTION II - HAZARD IDENTIFICATION

Hazard-determining components of labeling: Amorphous Silica, Iron Oxide, Aluminum Oxide

2.1 Classification of the substance or mixture

Carcinogen – Category 1

Eye Irritant – Category 2A

Skin Irritant – Category 2

Acute Toxicity (Oral) – Category 4

Specific Target Organ Toxicity Single Exposure – Category 2 (respiratory)

Specific Target Organ Toxicity Repeat Exposure – Category 2 (respiratory)

2.2a Signal word DANGER!

2.2b Hazard Statements

Causes cancer through chronic inhalation.

Causes eye irritation

Causes skin irritation.

Harmful if swallowed.

May cause damage to lungs through prolonged or repeated inhalation.



2.2c Pictograms



2.2d Precautionary statements

Do not handle until all safety precautions have been read and understood.

Wear protective gloves, eye protection, and protective clothing.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Do not breathe dust.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately seek medical advice or attention if symptoms are significant or persist.

Dispose of contents/containers in accordance with all regulations.

2.3 Additional Information

2.3a HNOC – Hazards not otherwise classified: Not applicable

2.3b Unknown Acute Toxicity: None

2.3c WHMIS Classification

Class D2A – Chronic Toxic Effects – Carcinogen

Class D2B – Eye Irritant

2.3d Label Elements According To WHMIS

Hazard Symbols



Signal Word

DANGER!

SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION



<u>Hazardous Components</u>	<u>CAS No.</u>	<u>% by Weight*</u>
Amorphous Silicon Dioxide	7631-86-9	30-60
Aluminum Oxide	1344-28-1	10-30
Iron Oxide (Fe ₂ O ₃)	1309-37-1	10-30
Calcium Oxide	1305-78-8	10-30
Magnesium Oxide	1309-48-4	5-10
Sodium Oxide	1313-59-3	1-5

*Composition ranges are provided due to naturally occurring variability.

SECTION IV – FIRST AID MEASURES

4.1 Description of the first-aid measures

General information:

After inhalation: Remove person to fresh air and keep comfortable for breathing.

After skin contact: Rinse skin with water.

After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

After swallowing: If conscious, have the victim drink plenty of water and call a physician immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms/effects, acute and delayed

Inhalation: May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated inhalation. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

Skin contact: Causes mechanical skin irritation.

Eye Contact: Causes eye irritation if particles or dust get in eye.

Ingestion: Ingestion of large quantities may cause discomfort and/or distress, nausea or vomiting.

4.3 Indication of immediate medical attention and special treatment needed:

Immediately seek medical advice or attention if symptoms are significant or persist.

SECTION V - FIRE FIGHTING MEASURES

5.1 Flammability of the Product: Non-flammable and non-combustible

5.2 Suitable extinguishing agents: Treat for surrounding material

5.3 Special hazards arising from the substance or mixture: None

5.3a Products of Combustion: None

5.3b Explosion Hazards in Presence of Various Substances: Non-explosive in presence of shocks

SECTION VI – ACCIDENTAL RELEASE MEASURES



6.1 Personal precautions, protective equipment and emergency procedures: Wear personal protective equipment (See section VIII). Keep unprotected persons away.

6.2 Methods and material for containment and cleaning up:

Do not allow to enter sewers/ surface or ground water. Dispose of unwanted materials and containers properly in accordance with all regulations.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE

7.1 Handling

Precautions for safe handling when sand blasting: Wear NIOSH-certified, type CE, blasting airline respirator with positive pressure blasting helmet for all people in the vicinity of blasting operations. The respirator must cover the wearer's head, neck and shoulders. Comply with OSHA Respiratory Protection standard. Do not breathe dust. Wear eye/face protection. Wear protective gloves/clothing. Additional required equipment includes, but is not limited to: hearing protection, long leather gloves, aprons and safety boots. Do not eat, drink, or smoke when using this product. Dust remains in the air after blasting is completed; therefore, continue all safety precautions until the area is clean and ventilated. Prevent inhalation of dust from contaminated clothing and equipment. Wash contaminated clothing before reuse. Wash contacted hands, skin and hair thoroughly after handling.

7.2 Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep out of the reach of children.

SECTION VIII – EXPOSURE CONTROL MEASURES / PERSONAL PROTECTION

8.1 Components with limit values that require monitoring at the workplace:

Hazardous Components	CAS No.	PEL (OSHA) mg/M ³	TLV (ACGIH) mg/M ³
Iron Oxide (Fe ₂ O ₃)	1309-37-1	10/15/5 (fume/dust/resp)	5 (resp)
Silicon Dioxide	7631-86-9	20 mppcf; (80)/(%SiO ₂)	5 (resp)
Calcium Oxide	1305-78-8	5	2
Aluminum Oxide	1344-28-1	15	Not Established

8.2 Exposure Controls

Use ventilation adequate to keep exposures below recommended exposure limits. Perform routine cleanup using wet methods or HEPA filtered vacuuming to minimize the accumulation of dust. Do not use compressed air to clean as this will create dust in the air. Clean and decontaminate equipment on the worksite. Schedule blasting when the least number of workers are at the site. Avoid blasting in windy conditions to prevent the spread of airborne dust.



8.3 General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Provide accommodations for end-of-shift showers and change areas with separate storage facilities for street clothes, protective clothing and equipment. Keep contaminated clothing and equipment out of the clean change area. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

8.3a Personal protective equipment

Workers who are blasting or exposed to the dust remaining in the air from blasting operations must wear NIOSH-certified, type CE, blasting airline respirator with positive pressure blasting helmet for all people in the vicinity of blasting operations. The respirator must cover the wearer's head, neck and shoulders. Comply with OSHA Respiratory Protection standard. Wear eye/face protection. Wear protective gloves/clothing. Additional required equipment includes, but is not limited to: hearing protection, long leather gloves, aprons and safety boots.

Workers in the area who are not exposed to the dust from blasting (for example, pouring bags of media into a hopper) must wear a NIOSH N-95 particulate respirator, eye protection, and protective gloves/clothing when handling product.

SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

General Information

Appearance	Form: Granular Solid Color: Black Odor: None
pH-value at 20°C (68 °F):	Not applicable
Boiling point/Boiling range:	Not applicable
Flash point:	Not applicable
Auto igniting:	Product is not self-igniting
Vapor pressure at 21°C (70°F)	Not applicable
Density at 25°C (77 °F):	2.7 g/cm ³ typical

Solubility in / Miscibility with

Water:	Insoluble
VOC content:	0 g/L VOC

SECTION X – STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal storage conditions. Keep in dry storage.

10.3 Possibility of hazardous reaction



No dangerous reaction known under conditions of normal use.

10.4 Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications.

10.5 Incompatible materials

Contact of silica with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, or oxygen difluoride may cause fires

10.6 Hazardous Decomposition or By-products

Silica will dissolve in Hydrofluoric Acid and produce a corrosive gas – silicon tetrafluoride.

SECTION XI – TOXICOLOGICAL INFORMATION

11.1 Exposure Routes: Inhalation, skin contact, eye contact, or ingestion.

11.2 Symptoms related to physical/chemical/toxicological characteristics:

Inhalation: May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure.

Skin contact: Causes mechanical skin irritation.

Eye Contact: Causes eye irritation if particles or dust gets in eye.

Ingestion: Harmful if swallowed

11.3 Delayed, immediate and chronic effects of short-term and long-term exposure

Short Term

Skin Corrosion/Irritation: Not applicable

Serious Eye Damage/Irritation: Causes eye irritation if particles or dust gets in eye

Respiratory Sensitization: Not applicable

Skin Sensitization: Not applicable

Specific Target Organ Toxicity-Single Exposure: (Category 2) May cause respiratory irritation

Aspiration Hazard: Not applicable

Long Term

Carcinogenicity: Causes cancer through chronic inhalation.

Germ Cell Mutagenicity: Not applicable

Reproductive Toxicity: Not applicable

Specific Target Organ Toxicity- Repeated Exposure: (Category 2) Causes damage to lungs through prolonged/repeated exposure

Synergistic/Antagonistic Effects: Not applicable

SECTION XII – ECOLOGICAL INFORMATION

12.1 Ecotoxicity

No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.



12.3 Bioaccumulative potential:

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Other Adverse Effects

No further relevant information available.

SECTION XIII – DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Method

The packaging and material may be land filled; however, material should be covered to minimize generation of airborne dust. This product is not classified as a hazardous waste under the authority of the RCRA (40CFR 261) or CERCLA (40CFR 117&302). Disposal must be made in accordance with local, state and federal regulations.

13.2 Other disposal considerations

Uncleaned packaging

Recommendation: Disposal must be made in accordance with local, state and federal regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

SECTION XIV – TRANSPORT INFORMATION

	DOT (U.S.)	TDG (Canada)
UN-Number	Not Regulated	Not Regulated
UN proper shipping name	Not Regulated	Not Regulated
Transport Hazard Class(es)	Not Regulated	Not Regulated
Packing Group (if applicable)	Not Regulated	Not Regulated

14.1 Environmental hazards:

Not applicable

14.2 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code

Not applicable

14.3 Special precautions for user

Do not handle until all safety precautions have been read and understood.

SECTION XV – OTHER REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislations specific for the chemical

Canada



WHMIS Classification: Considered to be a D2A and D2B hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the CPR.

15.2 US Federal Information

SARA 302/311/312/313 Components

This product contains chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, 311, 312 or 313.

Sara 311/312 Hazardous Categories

Acute Health: Yes **Chronic Health:** Yes **Fire:** No **Pressure:** No **Reactive:** No
Aluminum Oxide (1344-28-1)

Sara 313: 1.0% de minimis concentration (fibrous forms)

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.

FDA: Silica is included in the list of substances that may be included in coatings used in food contact surfaces, 21 CFR §175.300(b)(3)(xxvi).

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.

15.3 State Right to Know Laws

California Prop. 65 Components

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

California Inhalation Reference Exposure Level (REL): California established a chronic REL of 3 µg 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.

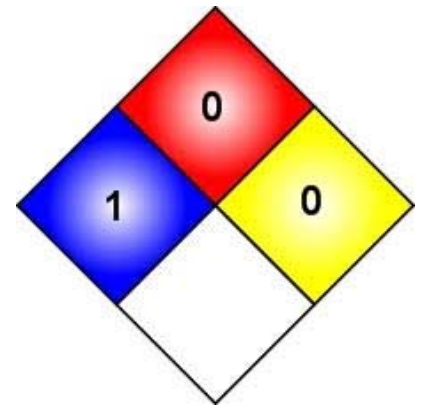
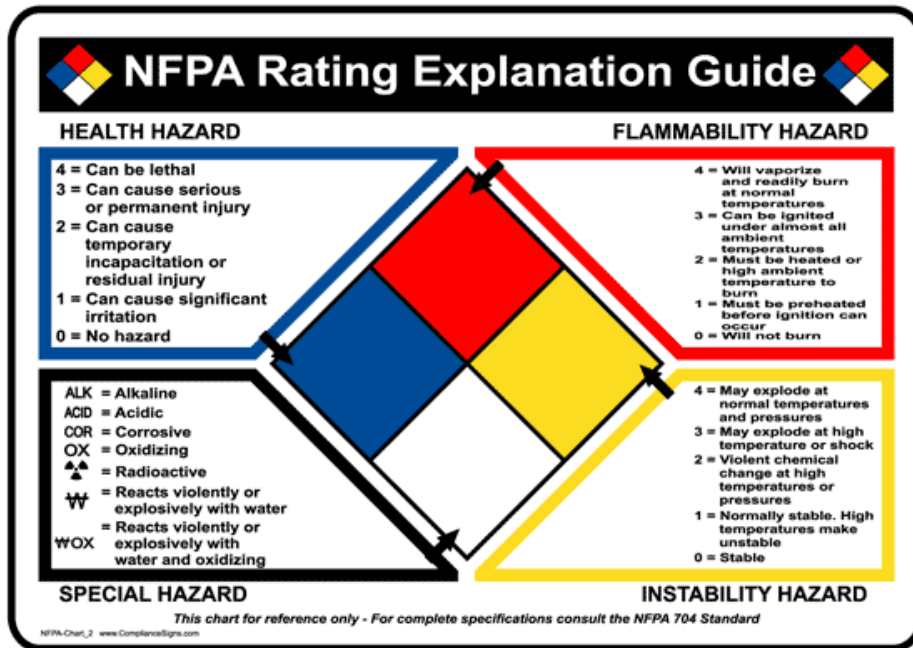
15.4 Global Inventories

DSL All components of this product are on the Canadian DSL list.



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

15.5 NFPA Ratings



SECTION XVI – OTHER INFORMATION

Last Updated: November 30, 2015

NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

End of SDS