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SAFETY DATA SHEET (SDS)

SECTION I. PRODUCT IDENTIFICATION

Product Name: Dakota Gold™

Product Source: Ground Source – Mine Location **Chemical Family:** Quartz Sand.

Chemtrec Phone No: 800-424-9300 **DOT Shipping Name:** Non-regulated Material.

DOT Hazard Class: Non-regulated Material. **Date SDS Prepared:** June 2015.

SECTION II. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health Hazard: Not Classified. **Physical Hazard:** Not Classified.

Environmental: Not Classified.

EMERGENCY OVERVIEW: Dakota Gold™ is not flammable, combustible or explosive; and poses no unusual hazard in an unused condition. During use for abrasive blasting, dust may irritate the respiratory tract, skin and eyes; and may cause inflammation and pulmonary fibrosis.

SECTION III. COMPOSITION / INFORMATION ON INGREDIENTS

Dakota Gold™ is a quartz sand produced from quartz crystals. Typical chemical analysis of the product is:

CAS No.	Chemical Name	Concentration %	ACGIH-TLV	OSHA-PEL
14808-60-7	Quartz	<90%	0.025 mg/m ³ (R)	{10 mg/m ³ }/{%SiO ₂ +2}

Note: Exposure to airborne crystalline silica shall not exceed an 8-hour time-weighted average limit as stated in 29 CFR section 1910.1000 Table Z-3 for Mineral Dusts, specifically “Silica: Crystalline: Quartz (respirable).”

SECTION IV. FIRST AID MEASURES

Eye Contact: Flush with water for at least 15 minutes. If irritation or redness persists, see a physician..

Skin Contact: Wash with soap and water. If irritation persists, see a physician.

Inhalation: Remove to fresh air at once. Apply artificial respiration if having breathing difficulties.

Ingestion: Give one or two glasses of water. If discomfort persists, see a physician.

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SECTION V. FIRE FIGHTING MEASURES

Dakota Gold™ will not burn. It has no flash point, no upper or lower flammable limits, and no autoignition temperature. No special fire fighting procedures are required. Dakota Gold™ presents no unusual fire or explosion hazard. Since Dakota Gold™ does not burn, use the appropriate fire extinguishing media for the other materials involved.

SECTION VI. ACCIDENTAL RELEASE MEASURES

Spill Response Procedures: Dakota Gold™ is classified as non-hazardous. Sweep up spilled material and dispose in a sanitary landfill or industrial disposal site. Avoid generating dust. Wet methods and vacuuming are preferred.

SECTION VII. HANDLING AND STORAGE

General Procedures: Follow Safety Data Sheet and label precautions.

Handling: Limit dust generation. Keep dry.

SECTION VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection: Usage of Dakota Gold™ as an abrasive blasting media can present a significant danger to eyes. Safety goggles or full face respirator must be worn.

Skin Protection: Usage of Dakota Gold™ as an abrasive blasting agent media can be an irritant to the skin. Protective clothing should be worn.

Ventilation: Sufficient local ventilation is recommended whenever possible to reduce worker exposure to below the TLV.

Respiratory Protection: For exposures up to five times the TLV for particulates not otherwise specified, a NIOSH/MSHA approved half face air purifying respirator equipped with P100 filters may be used. For exposure up to fifty times the TLV, a NIOSH/MSHA approved full face respirator equipped with P100 filters may be used. For higher exposures, a type CE airline respirator for abrasive blasting must be used.

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	4000° F	Specific Gravity (H₂O = 1):	2.60
Solubility in Water:	Non-Soluble	Vapor Pressure:	N/A
Appearance:	Sand-like granules	Vapor Density:	N/A
Odor:	Odorless	Evaporation Rate:	N/A
Melting Point:	2900° F		

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SECTION X. REACTIVITY DATA

Stability: Stable.**Conditions to avoid:** None.**Incompatibility (Materials to Avoid):** Chlorine Trifluoride (ClF₃), Manganese Trifluoride (MnF₃), Oxygen Difluoride (OF₂), Hydrofluoric Acid (HF), Chlorine, and Fluorine.**Hazardous Decomposition or Byproducts:** None.**Hazardous Polymerization:** Will not occur.

SECTION XI. TOXICOLOGICAL INFORMATION

Route(s) of Entry:**Inhalation** – Yes**Skin** – No**Ingestion** – No**Health Hazards (Acute and Chronic):**

Excessive inhalation of dust may result in respiratory disease, including silicosis, pneumoconiosis, and pulmonary fibrosis. The IARC's Monographs on the Evaluation of the Carcinogenicity Risk of Chemicals to Humans, Silica and Some Silicates (1987) states that there is "sufficient evidence for the carcinogenicity of crystalline silica to experimental animals".

Carcinogenicity: NTP – Yes IARC Monographs – Yes, Level 2A
 OSHA Required – No

Signs and Symptoms of Exposure: Shortness of breath and reduced pulmonary function.

Medical Conditions Generally Aggravated by Exposure: Individuals with pulmonary and/or respiratory disease, asthma and bronchitis

Contains suspected cancer agents? yes **NIOSH:** yes **NTP:** yes **IARC:** yes

SECTION XII. ECOLOGICAL INFORMATION

Eco-Toxicological Information: This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Bioaccumulation/Accumulation: This product is not bio-accumulating.**Distribution:** Not available.**Aquatic Toxicity:** None known.**Chemical Fate Information:** Not available.

SECTION XIII. DISPOSAL CONSIDERATIONS

Waste Disposal: Handle as inert material. In the unused form, material may be disposed of as non-hazardous solid waste, in accordance with local, state, and federal regulations.

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SECTION XIV. TRANSPORT INFORMATION

Dot Shipping Name: Non-regulated Material.

Dot Hazard Class: Non-regulated Material.

SECTION XV. REGULATORY INFORMATION

WHMIS 2015 Classification: This Safety Data Sheet (SDS) has been prepared to comply with this requirement.

OSHA: This SDS has been prepared to comply with the Hazard Communication Standard, 29 CFR 1910.1200.

SARA: Quartz (CAS No. 14808-60-7) is not subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372.

TSCA: Quartz (CAS No. 14808-60-7) is listed on the Toxic Substance Control Act inventory list.

CALIFORNIA PROPOSITION 65: WARNING - This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

SECTION XVI. OTHER INFORMATION

Prepared By: Mark C. Mummert, Ph.D., PE, CIH (#8415 CP)

HMIS CODING: HEALTH: 1 FIRE: 0 REACTIVITY: 0 PPE: B

DISCLAIMER: All data or information regarding the product contained in this **Safety Data Sheet (SDS)** is offered by the manufacturer in good faith as accurate, but is furnished without guaranty. While the information contained in the **SDS** is based upon research and analysis, ABRASIVES INC. makes no representation as to the accuracy of the information in this SDS.

The conditions of the use of this product, and the suitability of the product for your particular application, are beyond the control of ABRASIVES INC. All risks of the use of the product are therefore assumed by you, the user. It is also your responsibility to pass on to your employees and /or customers the information contained in this SDS, and give them appropriate warnings and safe handling instructions as necessary to make the product safe for its intended uses.

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