

## 1. PRODUCT IDENTIFICATION

MSDS Number: 4021010  
Identity: POULTRY GUARD litter amendment  
Issued: January 18, 2002  
Chemical Name: Fullers Earth and Sulphuric Acid

## 2. COMPOSITION

Component	CAS Number	Amount	Exposure Limit
Quartz (crystalline silica)	14808-60-7	6-8% bulk	PEL - 10 mg/m <sup>3</sup> /%SiO <sub>2</sub> +2 TWA TLV - 0.05 mg/m <sup>3</sup> TWA
Sulphuric Acid	7664-93-9	40-50%	PEL - 1 mg/m <sup>3</sup> TWA TLV - 1 mg/m <sup>3</sup> TWA
Fullers Earth	8031-18-3	50-60%	PEL - 5 mg/m <sup>3</sup> TWA (respirable fraction) TLV - 3 mg/m <sup>3</sup> TWA (respirable fraction) TLV - 10 mg/m <sup>3</sup> TWA (inhalable dust)
Quartz (respirable)	14808-60-7	.000064%	PEL - 10 mg/m <sup>3</sup> /%SiO <sub>2</sub> +2 TWA TLV - 0.05 mg/m <sup>3</sup> TWA

PEL- OSHA Permissible Exposure Limit. TLV- American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value. TWA- 8 hour Weighted Average. STEL-Short Term Exposure Limit.

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

This product is a non-combustible mineral. Eye contact may cause severe irritation or burns. Skin contact may cause irritation or burns. This product contains some naturally occurring non-respirable crystalline silica as quartz, a very small fraction of which is in the respirable range. Oil-Dri has conducted extensive sampling during the normal use of this product. This exposure data indicate that exposure to respirable crystalline silica during the normal use of this product is well below the OSHA Permissible Exposure Limit (PEL) and ACGIH Threshold Limit Value (TLV). In addition, the company is not aware of any scientific or medical data available indicating that exposure to dust from this product under conditions of normal use will cause silicosis or cancer. Therefore adverse long-term effects would not be expected from normal use of this product. Prolonged overexposure to respirable crystalline silica may cause lung disease (silicosis). IARC, in Monograph 68, has concluded that crystalline silica inhaled in the form of quartz from occupational sources is carcinogenic to humans (Group 1); however, carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent upon inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs.

### HEALTH HAZARDS

INGESTION May cause severe irritation or burns to the mouth, throat and gastrointestinal tract



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**INHALATION:** Inhalation of dust may cause irritation to the eyes, nose, throat and respiratory tract.

**EYE:** Direct contact with the eyes may cause severe irritation with redness, tearing and blurred vision. Possible permanent damage and blindness may result.

**SKIN:** Contact, especially with moist skin, may cause severe irritation and possibly burns.

**SENSITIZATION:** This product is not expected to cause skin or respiratory sensitization.

### CHRONIC/CARCINOGENICITY:

Prolonged or repeated skin contact may cause dermatitis. Inhalation of excessive concentrations of any dust, including this material, may lead to lung injury. This product contains some naturally occurring non-respirable crystalline silica as quartz, a very small fraction of which is in the respirable range. Oil-Dri has conducted extensive sampling during the normal use of this product. This exposure data indicate that exposure to respirable crystalline silica during the normal use of this product is well below the OSHA Permissible Exposure Limit (PEL) and ACGIH Threshold Limit Value (TLV). In addition, the company is not aware of any scientific or medical data available indicating that exposure to dust from this product under conditions of normal use will cause silicosis or cancer. Therefore adverse long-term effects would not be expected from normal use of this product. Excessive inhalation of respirable crystalline silica may cause silicosis, a progressive, disabling and fatal disease of the lung. Symptoms may include cough, shortness of breath, wheezing and reduced pulmonary function. The National Toxicology Program (NTP) classifies crystalline silica as a known carcinogen. The International Agency for Research on Cancer (IARC), in Monograph 68 has concluded that crystalline silica inhaled in the form of quartz or cristobalite, from occupational sources is carcinogenic to humans (Group 1). However, in making the overall evaluation, the Working Group noted that carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Individuals with respiratory disorders such as asthma and bronchitis may be at increased risk for respiratory irritation from dust exposure.

## 4. FIRST AID MEASURES

**EYE:** Immediately flush eyes with cool running water for at least 15 minutes, lifting upper and lower lids. Get immediate medical attention.

**SKIN:** Wash thoroughly with soap and water. Remove contaminated clothing and launder before re-use. Get medical attention if irritation persists.

**INGESTION:** Rinse mouth out with water and get immediate medical attention.

**INHALATION:** Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

## 5. FIREFIGHTING MEASURES

**FLASH POINT:** Not Applicable

**FLAMMABLE LIMITS** Not Applicable

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### EXTINGUISHING MEDIA:

Use any dry chemical or CO2 extinguisher that is appropriate for the surrounding small fire. Avoid applying water directly to this material. Do not get water into containers. If large fire occurs use flooding quantities of water. Aqueous runoff could be acidic and corrosive.

### UNUSUAL FIRE OR EXPLOSION HAZARDS:

None

### SPECIAL FIREFIGHTING INSTRUCTIONS

Firefighters should always wear self-contained breathing apparatus and full protective clothing for fires involving chemicals or in confined spaces.

### HAZARDOUS COMBUSTION PRODUCTS:

Extremely high temperatures may generate sulfur dioxide.

## 6. ACCIDENTAL RELEASE MEASURES

Wear appropriate protective clothing including gloves and eye protection. Sweep up, taking care not to generate airborne dust and collect for re-use or disposal.

## 7. HANDLING AND STORAGE

### HANDLING:

Prevent contact with the eyes, skin and clothing. Do not breathe dust. Wear protective clothing (refer to Section 8). Use only in well ventilated areas. Keep container closed when not in use. Wash thoroughly after handling and before eating, drinking or smoking. Use good housekeeping in storage and use areas to prevent dust accumulation.

### STORAGE:

Store in closed containers not susceptible to acid attack in a dry area away from flammable substances and incompatible materials. Close containers when not in use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE GUIDELINES:

Refer to Section 2.

### ENGINEERING CONTROLS:

For operations where the exposure limit may be exceeded, local exhaust ventilation is recommended.

### RESPIRATORY PROTECTION:

For operations where the exposure limit may be exceeded, a NIOSH/MSHA approved high efficiency particulate respirator is recommended.

### SKIN PROTECTION:

Impervious gloves such as butyl rubber, neoprene or natural rubber are required. Use gauntlet type glove where needed to prevent skin contact.

### EYE PROTECTION:

Chemical safety goggles and/or face shield recommended.

### OTHER:

Appropriate protective clothing such as apron, coveralls or acid-proof suit with boots recommended where needed to prevent skin contact. Launder contaminated clothing before re-use. Discard contaminated shoes and other leather items which cannot be decontaminated. An eye wash and safety shower must be available in the work area.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE AND ODOR:

Dark granules with a sulfur odor.

PHYSICAL STATE: Solid

BOILING POINT: Not applicable

VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable

### SOLUBILITY IN WATER:

Partially soluble

SPECIFIC GRAVITY: 0.9-1.0

pH: 0.6

MELTING POINT: Not applicable

### OCTANOL/WATER COEFFICIENT:

Not available

## 10. STABILITY AND REACTIVITY

STABILITY: Stable

INCOMPATIBILITY: Contact with turpentine, vegetable oil, unsaturated organic compounds, or hydrofluoric acid may generate heat and/or fire. Do not expose to strong bases, carbides, chlorates, fulminates, nitrates, picrates, powdered metals or combustible materials.

### HAZARDOUS DECOMPOSITION PRODUCTS:

Extreme heat may generate sulfur dioxide. Reacts with many metals releasing flammable hydrogen gas.

### HAZARDOUS POLYMERIZATION:

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

Sulfuric Acid: Oral Rat LD50 2140 mg/kg; Inhalation Rat LC50 320 mg/m<sup>3</sup>/2 hr

## 12. ECOLOGICAL INFORMATION

No data available.

## 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state and federal environmental regulations. If permitted, unused material may be suitable for disposal in sanitary landfill. Used material may be subject to regulation, depending on the nature of the material absorbed. Check with appropriate regulatory authority for used material containing hazardous waste.



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### 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME:

Corrosive Solid, Acidic, Inorganic, n.o.s. (Contains Sulfuric Acid)

UN NUMBER: UN3260

HAZARD CLASS/PACKING GROUP:  
8, PG II

LABELS REQUIRED: Corrosive

### 15. REGULATORY INFORMATION

CERCLA/SUPERFUND Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Sulfuric Acid (50% maximum) of 1000 lbs, is 2,000 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA HAZARD CATEGORY (311/312):

Acute Health and Chronic Health

SARA 313: This product contains Sulfuric Acid (40-50%) CAS No. 7664-93-9. Sulfuric acid may be reportable when manufactured, processed or used as an aerosol.

TSCA: All of the components of this product are listed on the EPA TSCA Inventory or exempt from notification requirements.

EINECS: All of the components of this product are listed on the EINECS Inventory or exempt from notification requirements

EEC R&S Phrases: Corrosive R34, S24/25, S26, S36/37/39, S45

JAPAN MITI: All of the components of this product are existing chemical substances as defined in the Chemical Substances Control Law.

AICS: All of the components of this product are listed on the AICS Inventory or exempt from notification requirements

CANADIAN DSL: All of the components of this product are listed on the Canadian Domestic Substance List or exempt from notification requirements.

CA PROPOSITION 65: This product contains respirable crystalline silica which is known to the State of California to cause cancer.

### 16. OTHER INFORMATION

NFPA RATING: Health=3 Fire=0 Reactivity=1

HMIS RATING: Health=3\* Fire=0 Reactivity=1

The information in this data sheet is believed to be accurate. However, each purchaser should make its own test to determine the suitability of the product for its purposes. OIL-DRI CORPORATION OF AMERICA MAKES NO WARRANTY, EXPRESSED OR IMPLIED, WITH RESPECT TO THE PRODUCT and assumes no responsibility for any risk or liability arising from the use of the information or the product. Statements about the product should not be construed as recommendations to use the product in infringement of any patent.