

# Material Safety Data Sheet

## SECTION 1. PRODUCT IDENTIFICATION

CHEMICAL FAMILY: Perlite and oxidized bituminous coal solution (SHAC Liquid Feed Additive for Odour Control in Swine)  
MANUFACTURED BY: SHAC Environmental Products Inc. PO Box 73, Medicine Hat, AB, T1A 7E5

EMERGENCY TELEPHONE NUMBER:  
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DESCRIPTION: brown free-flowing aggregate  
TRADE NAME: **SHAC Granular Feed Additive for Odour Control in Swine**

PRODUCT USE: 1. reduces odors 2. reduces ammonia gas produced in confined hog operations

(NOT A CONTROLLED PRODUCT UNDER WHMIS)

## SECTION 2. HAZARDOUS INGREDIENTS

**INGREDIENTS:** water, oxidized bituminous coal (CAS # 129521-66-0), perlite (CAS # 93763-70-3)

CAS #	Exposure Limits		
	ACGIH TLV (total)	ACGIH TLV (resp.)	Other
93763-70-3	10 mg/M <sub>3</sub>	3 mg/M <sub>3</sub>	30 mppcf
129521-66-0	N/A	N/A	N/A

Perlite is essentially an amorphous, hydrated glassy volcanic rock of rhyolitic composition, consisting primarily of fused sodium potassium aluminum silicate.

Oxidized bituminous coal solution is a solution of naturally occurring complexes

## SECTION 3. PHYSICAL DATA

PHYSICAL STATE: solid, granular to powdery  
BOILING POINT: not applicable, does not form liquid

APPEARANCE: brown, granular aggregate

ODOR: odourless

SPECIFIC GRAVITY: not applicable

VAPOR DENSITY: (air = 1) not applicable

DENSITY: 0.6 kg/L (average)

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available – the product may contain up to 50% moisture.

MOISTURE VARIATION: The product may lose or gain moisture over time, dependant on humidity and temperature conditions and on exposure of the product to the environment.

pH: not available

ODOR THRESHOLD: not applicable

VAPOR PRESSURE: negligible  
EVAPORATION RATE: not applicable  
PERCENT VOLATILES: 0%  
VISCOSITY: unknown  
SOLUBILITY IN WATER: unknown

## SECTION 4. FIRE AND EXPLOSION HAZARD

FLAMMABLE: Not considered a fire hazard  
FLASH POINT: The product is a fully oxidized, non-flammable mineral. It is non-combustible and non-flammable.  
AUTOIGNITION TEMPERATURE: not applicable  
FLAMMABLE LIMITS IN AIR, % BY VOLUME: not applicable  
EXTINGUISHING MEDIA: Use media appropriate for surrounding fire.  
HAZARDOUS COMBUSTION PRODUCTS: not applicable  
LEL: not applicable  
UEL: not applicable  
EXPLOSION DATA: Not sensitive to impact or static discharge  
SPECIAL PROCEDURES: Use protective clothing and breathing equipment appropriate for surrounding fire.

## SECTION 5. REACTIVITY DATA

CHEMICAL STABILITY: Stable under ambient conditions.  
INCOMPATIBLE PRODUCTS: non-reactive  
HAZARDOUS POLYMERIZATION: Will not occur.  
CONDITIONS OF CHEMICAL UNSTABILITY: not applicable  
CONDITIONS OF REACTIVITY: none  
HAZARDOUS DECOMPOSITIONS PRODUCTS: none.

## SECTION 6. HEALTH HAZARDS

LD<sub>50</sub>: not applicable  
LC<sub>50</sub>: not applicable  
EFFECTS OF SINGLE (ACUTE) OVEREXPOSURE:  
SWALLOWING: No evidence of adverse effects from available information.  
SKIN ABSORPTION: No evidence of adverse effects from available information.  
INHALATION: May cause respiratory track irritation  
SKIN CONTACT: Staining may occur - wash with soap and water. No harmful effects expected.  
EYE CONTACT: Dust particles may cause irritation in eyes and temporarily impair vision. If eyes are irritated, rinse with water to remove particles.  
EFFECTS OF REPEATED (CHRONIC) OVEREXPOSURE: Prolonged exposure via

inhalation may result in permanent lung disorders and damage. Dust has been related to silicosis. Symptoms include coughing, shortness of breath, wheezing and reduced pulmonary function.  
IRRITACY OF PRODUCT: Dust causes irritation as noted above. Ingestion and skin contact are not considered hazardous.  
SENSITIZATION TO PRODUCTS: negligible  
CARCINOGENICITY: Not considered a human carcinogen.  
TERATOGENICITY: not applicable  
REPRODUCTIVE TOXICITY: not applicable  
MUTAGENICITY: not applicable

#### **SECTION 7. PREVENTATIVE MEASURES**

PERSONAL PROTECTIVE EQUIPMENT TO BE USED:

RESPIRATORY PROTECTION: Respiratory protection may be desirable if dust is created in handling.

PROTECTIVE GLOVES: Wear loose-fitting gloves.

EYE PROTECTION: It is recommended that goggles be worn to prevent dust particles entering eyes.

#### **SECTION 8. FIRST AID**

INHALATION: Inhalation of dust alone is unlikely to result in an emergency situation, if symptoms develop remove victim from area and get fresh air. Get prompt medical attention if breathing difficulty is evident and persists.

INGESTION: Adverse affects are not expected if ingested.

EYES: Flush with water to remove particles which may be causing irritation. Get medical attention if irritation persists.

SKIN: Wash with soap and water. First Aid is usually not necessary. If irritation or discomfort occurs and persists, contact a physician.

#### **SECTION 9. PREPARATION DATA**

PREPARED BY: SHAC Environmental Products Inc. January 4, 2014

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