

# Material Safety Data Sheet

## SECTION 1. PRODUCT IDENTIFICATION

CHEMICAL FAMILY: organic carbon liquid  
MANUFACTURED BY: SHAC Environmental Products Inc. PO Box 73, Medicine Hat, AB, T1A 7E5

EMERGENCY TELEPHONE NUMBER:  
1-888-533-4446

DESCRIPTION: blackish / brown liquid  
TRADE NAME: **SHAC Manure Digester**  
PRODUCT USE: 1. reduces odors. 2. promotes biodigestion and waste solids breakdown  
NOT A CONTROLLED PRODUCT UNDER WHMIS

## SECTION 2. HAZARDOUS INGREDIENTS

INGREDIENTS: Liquefied lignite coal (water, oxidized lignite coal)  
Lignite Coal CAS # 129521-66-0  
LC<sub>50</sub> (Species & route): not applicable  
TVL (AGGIH): None currently established - used mainly outdoors

## SECTION 3. PHYSICAL DATA

PHYSICAL STATE: liquid  
BOILING POINT: not available  
APPEARANCE: blackish/brown  
ODOR: clean coal  
SPECIFIC GRAVITY: not applicable  
VAPOR DENSITY: (air = 1) not available  
DENSITY: 1.1 g/ml  
COEFFICIENT OF WATER/OIL DISTRIBUTION: n/a  
ODOR THRESHOLD: not applicable  
VAPOR PRESSURE: not applicable  
EVAPORATION RATE: not applicable

## SECTION 4. FIRE AND EXPLOSION HAZARD

FLAMMABLE: No  
FLASH POINT: (Test method); not applicable  
AUTOIGNITION TEMPERATURE: not applicable  
FLAMMABLE LIMITS IN AIR, % BY VOLUME: n/a  
EXTINGUISHING MEDIA: not applicable  
HAZARDOUS COMBUSTION PRODUCTS: not known  
LEL: not applicable  
UEL: not applicable

## SECTION 5. REACTIVITY DATA

STABILITY: stable  
INCOMPATIBLE PRODUCTS: none known  
HAZARDOUS POLYMERIZATION: will not occur  
CONDITIONS OF CHEMICAL UNSTABILITY: not applicable.  
CONDITIONS OF REACTIVITY: none

## SECTION 6. HEALTH HAZARDS

LD<sub>50</sub> (Mixture): not applicable  
LC<sub>50</sub> (Mixture): 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: No evidence of adverse effects from available information.  
SKIN CONTACT: Staining may occur - wash with soap and water. No harmful effects expected.  
EYE CONTACT: No harmful effects expected from vapour. If splashed in eyes, rinse with water to remove particles.

## EFFECTS OF REPEATED (CHRONIC)

OVEREXPOSURE: No evidence of adverse effects from available information.  
SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH  
HAZARD EVALUATION: None currently known.

## SECTION 7. PREVENTATIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT TO BE USED:  
RESPIRATORY PROTECTION: Not required.  
PROTECTIVE GLOVES: Wear loose-fitting gloves.  
EYE PROTECTION: It is recommended that goggles be worn when spraying.

## SECTION 8. FIRST AID

INHALATION: Not applicable.  
INGESTION: Dilute the stomach contents giving water or milk.  
EYES: Flush with water to remove particles, which may cause irritation  
SKIN: Remove clothing and wash with soap and water.

## SECTION 9. PREPARATION DATA

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