



# **EnerZan**

### **SECTION 1. IDENTIFICATION**

Product Identifier EnerZan

**Recommended Use** Drilling Fluid Additive.

Manufacturer / AES Drilling Fluids, LLC, 11767 Katy Freeway, Suite 230, Houston, TX, 77079, Sales &

**Supplier** Information, 281-556-5628

Emergency Phone No. CHEMTREC, 1-800-424-9300, 24-hour Emergency

**Date of Preparation** May 14, 2015

### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

OSHA Defined Hazards: Combustible dust

**GHS Label Elements** 

Signal Word: Warning

Hazard Statement(s):

Dust in eye may result in mechanical irritation. May form combustible dust concentrations in air

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Contains no hazardous ingredients.

Chemical Name	CAS No.	%	Other Identifiers
Xanthan gum	11138-66-2	100	

# **SECTION 4. FIRST-AID MEASURES**

#### **First-aid Measures**

#### Inhalation

Remove source of contaminant or move to fresh air. Keep at rest in a position comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor. Get medical advice/attention if you feel unwell or are concerned.

#### **Skin Contact**

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If irritation persists, get medical advice/attention.

#### **Eye Contact**

Flush eyes thoroughly with lukewarm water for 15 minutes. If eye irritation persists, get medical advice/attention.

### Ingestion

First aid is generally not required. Get medical advice/attention if you feel unwell or are concerned.

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### **SECTION 5. FIRE-FIGHTING MEASURES**

### Suitable Extinguishing Media

Water, Carbon Dioxide, Foam, Dry chemical.

# **Specific Hazards Arising from the Chemical**

At very high dust concentrations, product may form combustible dust concentrations or explosive dust-air mixtures. Oxides of carbon.

### Special Protective Equipment and Precautions for Fire-fighters

When fighting chemical fires, emergency responders should wear NIOSH approved self contained breathing apparatus and appropriate protective clothing.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

See Section 8 for appropriate personal protective equipment.

# Methods and Materials for Containment and Cleaning Up

Eliminate all ignition sources. Avoid generating dust. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal. Store recovered product or absorbent material in suitable containers for disposal according to local regulations.

#### **SECTION 7. HANDLING AND STORAGE**

# **Precautions for Safe Handling**

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. Avoid creating excessive dust while handling the product. See Section 8 for appropriate Personal Protective Equipment (PPE).

### **Conditions for Safe Storage**

Store in an area that is: cool, dry, well-ventilated. Away from open flames, excessive heat or sources of ignition. Keep containers tightly closed when not in use. Use good housekeeping to prevent accumulation of dust.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control Parameters**

	ACGIH® TLV®		OSHA PEL		AIHA® WEEL™	
Chemical Name	TWA	STEL [C]	TWA	Ceiling	8-hr TWA	Short-term TWA [C]
Xanthan gum	15 mg/m3		10 mg/m3		Not established	

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. AIHA® = AIHA® Guideline Foundation. WEEL™ = Workplace Environmental Exposure Limit. Control parameter values for respirable dust.

# **Appropriate Engineering Controls**

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. While working with this product an eyewash should be within acceptable distance to the work area.

#### **Individual Protection Measures**

#### **Eve/Face Protection**

Safety glasses or goggles. Use goggles or face shield when there is risk of eye contact or visible dust produced.

#### **Skin Protection**

Wear appropriate gloves while handling product. Wear long sleeves, long pants and appropriate footwear while working with product.

### **Respiratory Protection**

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If conditions of use promote large amounts of dust to gather in the work area, wear NIOSH approved dust mask or respirator.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Basic Physical and Chemical Properties** 

**Appearance** White - tan powder.

**Odour** Faint

Odour Threshold Not available pH Not available

Melting Point/Freezing Point Not available (melting); Not available (freezing)

Initial Boiling Point/RangeNot availableFlash PointNot availableEvaporation RateNot availableFlammability (solid, gas)Not available

**Upper/Lower Flammability or** 

**Explosive Limit** 

Not available (upper); Not available (lower)

Vapour Pressure Not available
Vapour Density (air = 1) Not available

Relative Density (water = 1) 1.5

Solubility Soluble in water Partition Coefficient, Not available

n-Octanol/Water (Log Kow)

Auto-ignition TemperatureNot availableDecomposition TemperatureNot available

Other Information

Physical State Solid

# **SECTION 10. STABILITY AND REACTIVITY**

### Reactivity

Not reactive.

# **Chemical Stability**

Stable under normal conditions.

#### **Possibility of Hazardous Reactions**

None expected under normal conditions of storage and use.

#### **Conditions to Avoid**

Water, moisture or humidity.

### **Incompatible Materials**

Strong Oxidizing Agents.

#### **Hazardous Decomposition Products**

Oxides of carbon.

# **SECTION 11. TOXICOLOGICAL INFORMATION**

# **Likely Routes of Exposure**

Skin contact; eye contact; inhalation; ingestion.

#### **Acute Toxicity**

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)

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Xanthan gum Not available > 1,000 mg/kg (mouse) Not available

#### Skin Corrosion/Irritation

Not a skin irritant.

### Serious Eye Damage/Irritation

May cause mechanical irritation to eyes.

# STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

May result in mechanical irritation of the respiratory tract from high dust concentrations.

### **Skin Absorption**

Not harmful.

#### Ingestion

Not harmful.

### STOT (Specific Target Organ Toxicity) - Repeated Exposure

Not harmful.

#### Respiratory and/or Skin Sensitization

Not a respiratory sensitizer. Not a skin sensitizer.

### Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Xanthan gum	Not Listed	Not Listed	Not Listed	Not Listed

Not a carcinogen.

Key to Abbreviations

IARC = International Agency for Research on Cancer. ACGIH® = American Conference of Governmental Industrial Hygienists. NTP = National Toxicology Program. OSHA = US Occupational Safety and Health Administration.

### **Reproductive Toxicity**

# **Development of Offspring**

No information was located.

#### **Sexual Function and Fertility**

No information was located.

# **Germ Cell Mutagenicity**

No information was located.

# **SECTION 12. ECOLOGICAL INFORMATION**

Environmental information was not located.

### **Toxicity**

No information was located.

#### **Acute Aquatic Toxicity**

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Xanthan gum	Not available	Not available	Not available	Not available

#### Persistence and Degradability

No information was located.

#### **Bioaccumulative Potential**

No information was located.

# **Mobility in Soil**

No information was located.

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### **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal Methods**

Dispose of in accordance with all local, state and federal regulations. Not classified as RCRA Hazardous. RCRA WASTE NUMBER: Not Applicable.

#### SECTION 14. TRANSPORT INFORMATION

Not regulated under US DOT Regulations.

### **SECTION 15. REGULATORY INFORMATION**

### Safety, Health and Environmental Regulations

#### **USA**

#### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

### **Additional USA Regulatory Lists**

CERCLA: Product does not contain any chemicals subject to the reporting requirement of CERCLA.

SARA Title III - Section 302: No listed components.

SARA Title III - Section 311/312: No listed components.

SARA Title III - Section 313: No chemicals are reportable under Section 313.

### **SECTION 16. OTHER INFORMATION**

NFPA Rating Health - 1 Flammability - 0 Instability - 0

SDS Prepared By AES Drilling Fluids Phone No. 281-556-5628

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**Disclaimer** Do not handle or use until precautions on MSDS are read and understood. The information on

this form is furnished solely for the purpose of enabling those who transport, handle or use our products to ensure the safety and health of their employees and to comply with various laws and regulations (federal, state and local). We believe the statements, technical information and recommendations contained herein are reliable but, they are given without warranty or quarantee of any kind, express or implied and we assume no responsibility for any loss,

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