



# **Ener Pac Lo Vis**

# **SECTION 1. IDENTIFICATION**

**Product Identifier** Ener Pac Lo Vis **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 08, 2015

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

### **GHS Label Elements**

Hazard Statement(s):

H402 Harmful to aquatic life.

Precautionary Statement(s):

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance:

Chemical Name	CAS No.	%	Other Identifiers
Polyanionic Cellulose (PAC)	9004-32-4	100	

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

### **First-aid Measures**

### Inhalation

Remove source of exposure 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. Call a Poison Centre or doctor if you feel unwell or are concerned.

#### Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap. Remove contaminated clothing and launder before reuse. Get medical advice/attention if you feel unwell or are concerned.

#### Eye Contact

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

# Ingestion

Rinse mouth with water. Do not induce vomiting without medical advice. If vomiting occurs, have victim lean forward to reduce the risk of aspiration. Call a Poison Centre or doctor if you feel unwell or are concerned.

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

### **Suitable Extinguishing Media**

Water, Carbon Dioxide, Dry chemical. Alcohol-resistant foams.

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### **Specific Hazards Arising from the Chemical**

Product can ignite if strongly heated and exposed to open flames.

Thermal decomposition of this product may lead to the release of irritating gases and vapours. 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

Keep out unnecessary and unprotected personnel. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

### **Environmental Precautions**

Do not allow into any sewer, on the ground or into any waterway. If the product enters drains, soil, ditches, sewers, waterways and/or groundwater inform EH&S and appropriate authorities.

### Methods and Materials for Containment and Cleaning Up

Eliminate all ignition sources. Vacuum or sweep product up, try to minimize dust build-up. Place solid waste in a sealed container for disposal in accordance with local environmental and public health regulations.

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

## **Precautions for Safe Handling**

Avoid breathing in this product. Only use where there is adequate ventilation. Do not get in eyes, on skin or on clothing. Do not eat, drink or smoke in areas where product is handled. Employees should wash hands after working with product and before going on breaks outside of the work area. Remove and wash contaminated clothing before re-use. 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®	ACGIH® TLV®		OSHA PEL		AIHA® WEEL™	
Chemical Name	TWA	STEL [C]	TWA	Ceiling	8-hr TWA	Short-term TWA [C]	
Polyanionic Cellulose (PAC)	Not established		Not established		Not established		

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. STEL = Short-term Exposure Limit. C = Ceiling limit. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. AIHA® = AIHA® Guideline Foundation. WEEL™ = Workplace Environmental Exposure Limit.

# **Appropriate Engineering Controls**

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

# **Individual Protection Measures**

# **Eye/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**

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

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

**Basic Physical and Chemical Properties** 

**Appearance** Light yellow powder.

Odour Not available **Odour Threshold** Not available 6.5 - 8.5

525 °F (274 °C) (melting); 525 °F (274 °C) (freezing) **Melting Point/Freezing Point** 

**Initial Boiling Point/Range** Not available **Flash Point** Not available **Evaporation Rate** Not available Not available Flammability (solid, gas)

Upper/Lower Flammability or

Not available (upper); Not available (lower)

**Explosive Limit** 

**Vapour Pressure** Not available Vapour Density (air = 1) Not available Relative Density (water = 1) Not available

Solubility Not available in water

Not available **Auto-ignition Temperature Decomposition Temperature** Not available

Other Information

**Physical State** Solid

# **SECTION 10. STABILITY AND REACTIVITY**

### Reactivity

Not reactive under normal conditions of use.

# **Chemical Stability**

Stable under normal conditions.

# **Possibility of Hazardous Reactions**

None expected under normal conditions of storage and use.

### **Conditions to Avoid**

Open flames, sparks, static discharge, heat and other ignition sources.

# **Incompatible Materials**

Strong Oxidizing Agents.

# **Hazardous Decomposition Products**

Carbon oxides.

# **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Likely Routes of Exposure**

Inhalation; skin contact; eye contact; ingestion.

# **Acute Toxicity**

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Polyanionic Cellulose (PAC)	> 5800 mg/m3 (rat) (4-hour exposure)	27000 mg/kg (rat)	> 2000 mg/kg (rabbit)

### Skin Corrosion/Irritation

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Date of Preparation: May 08, 2015 Page 03 of 05 May cause skin irritation.

### Serious Eye Damage/Irritation

May cause eye irritation.

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

### Inhalation

May cause irritation. May be harmful if inhaled.

### **Skin Absorption**

No information was located.

### Ingestion

May cause irritation of the digestive tract.

# STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

### Respiratory and/or Skin Sensitization

No information was located.

### Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Polyanionic Cellulose (PAC)	Not Listed	Not Listed	Not Listed	Not Listed

No information was located.

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.

### Effects on or via Lactation

No information was located.

### **Germ Cell Mutagenicity**

No information was located.

### Interactive Effects

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
Polyanionic Cellulose (PAC)	100-1000 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour)	87.26 mg/L (Daphnia magna (water flea); 48-hour)	Not available	Not available

# Persistence and Degradability

No information was located.

### **Bioaccumulative Potential**

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No information was located.

### **Mobility in Soil**

No information was located.

### **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 exempt from the TSCA.

### **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: None

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

# **SECTION 16. OTHER INFORMATION**

NFPA Rating Health - 1 Flammability - 1 Instability - 0

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

Date of Preparation May 08, 2015

**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,

damage, direct or consequential, arising out of their use.

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