

# POLYETHYLENE WAX

## SECTION 1. IDENTIFICATION

**Product Identifier** POLYETHYLENE WAX  
**Recommended Use** Drilling Fluid Additive.  
**Manufacturer / Supplier** AES Drilling Fluids, LLC, 11767 Katy Freeway, Suite 230, Houston, TX, 77079, Sales & Information, 281-556-5628  
**Emergency Phone No.** CHEMTREC, 1-800-424-9300, 24-hour Emergency  
**Date of Preparation** July 02, 2015

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Acute toxicity (Oral) - Category 5; Acute toxicity (Inhalation) - Category 5; Serious eye damage/eye irritation - Category 2B

OSHA Defined Hazards: Combustible dust

### GHS Label Elements

Signal Word:

Warning

Hazard Statement(s):

May form combustible dust concentrations in air

H303 May be harmful if swallowed.

H320 Causes eye irritation.

H333 May be harmful if inhaled.

Precautionary Statement(s):

Prevention:

P264 Wash hands thoroughly after handling.

P260 Do not breathe dust.

P262 Do not get in eyes, on skin, or on clothing.

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.

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

P337 + P313 If eye irritation persists: Get medical advice/attention.

P304 + P312 IF INHALED: Call a POISON CENTRE/doctor if you feel unwell.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance:

Chemical Name	CAS No.	%	Other Identifiers
Polyethylene Wax	9002-88-4	100	

## SECTION 4. FIRST-AID MEASURES

### First-aid Measures

#### Inhalation

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Remove source of exposure or move to fresh air. 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 skin irritation occurs get medical advice/attention.

#### **Eye Contact**

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice/attention.

#### **Ingestion**

Rinse mouth with water. Get medical advice/attention if you feel unwell or are concerned.

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

### **Suitable Extinguishing Media**

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

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

Can ignite if strongly heated. Forms slippery compound when mixed with water.

In a fire, the following hazardous materials may be generated: flammable chemicals; irritating chemicals. oxides of carbon.

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

Dust is subject to combustion when exposed to ignition sources in heated environments.

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. Eliminate all ignition sources. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

### **Environmental Precautions**

It is good practice to prevent releases into the environment. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas. Prevent product from entering drains, soil, ditches, sewers, waterways and/or groundwater.

### **Methods and Materials for Containment and Cleaning Up**

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

### **Other Information**

Contact EH&S regarding spill as spills of certain products and certain quantities may require reporting to various authorities.

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

### **Precautions for Safe Handling**

Do not get in eyes. Avoid breathing in dust. Avoid generating dusts. Do not ingest product. Keep away from heat and open flames. Dust may form an explosive mixture with air at high concentrations. See Section 8 for appropriate Personal Protective Equipment (PPE).

### **Conditions for Safe Storage**

Store in an area that is: cool, ventilated, out of direct sunlight. Away from open flames, excessive heat or sources of ignition. Separate from incompatible materials (see Section 10: Stability and Reactivity). Use good housekeeping to prevent accumulation of dust.

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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## Control Parameters

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

ACGIH® = American Conference of Governmental Industrial Hygienists. TWA = Time-Weighted Average. I = Inhalable fraction. 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.

Product may cause irritation similar to nuisance dust and meet the criteria of Particulate Not Otherwise Regulated, total or respirable.

### Appropriate Engineering Controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Do not allow product to accumulate in the air in work or storage areas, or in confined spaces.

### Individual Protection Measures

#### Eye/Face Protection

Safety glasses or goggles. Wear chemical safety goggles and face shield when contact is possible.

#### Skin Protection

Not required, if used as directed.

#### Respiratory Protection

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 flakes.
Odour	Faint
Odour Threshold	Not available
pH	Not available
Melting Point/Freezing Point	> 235 °F (113 °C) (melting); Not available (freezing)
Initial Boiling Point/Range	Not available
Flash Point	~ 350 °F (177 °C) (open cup)
Evaporation Rate	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)	0.92
Solubility	Practically insoluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Other Information	
Physical State	Solid

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

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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**

None known.

**Incompatible Materials**

Strong oxidizing agents (e.g. perchloric acid).

**Hazardous Decomposition Products**

Normal hydrocarbon combustion products expected. Oxides of carbon.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Likely Routes of Exposure**

Inhalation; eye contact; ingestion.

**Acute Toxicity**

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Polyethylene Wax	75500 mg/m3 (rat)	> 2000 mg/kg (rat)	Not available

**Skin Corrosion/Irritation**

Prolonged contact may cause mild irritation.

**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**

No information was located.

**Ingestion**

No effects anticipated. May cause discomfort if swallowed.

**Aspiration Hazard**

Not known to be an aspiration hazard.

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

No known significant effects.

**Respiratory and/or Skin Sensitization**

Not known to be a skin sensitizer. Not known to be a respiratory sensitizer.

**Carcinogenicity**

Chemical Name	IARC	ACGIH®	NTP	OSHA
Polyethylene Wax	Group 3	Not Listed	Not Listed	Not Listed

Not known to cause cancer.

**Key to Abbreviations**

IARC = International Agency for Research on Cancer. Group 3 = Not classifiable as to its carcinogenicity to humans. ACGIH® = American Conference of Governmental Industrial Hygienists. NTP = National Toxicology Program. OSHA = US Occupational Safety and Health Administration.

**Reproductive Toxicity**

**Development of Offspring**

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Not known to harm the unborn child.

**Sexual Function and Fertility**

Not known to cause effects on sexual function or fertility.

**Effects on or via Lactation**

No information was located.

**Germ Cell Mutagenicity**

No information was located.

**SECTION 12. ECOLOGICAL INFORMATION**

Do not allow product to contaminate domestic or irrigation water supplies, lakes, streams, ponds or rivers.

**Toxicity**

No information was located.

**Acute Aquatic Toxicity**

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Polyethylene Wax	Not available	Not available	Not available	Not available

**Persistence and Degradability**

Not inherently biodegradable.

**Bioaccumulative Potential**

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: Fire Hazard

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

**SECTION 16. OTHER INFORMATION**

<b>NFPA Rating</b>	<b>Health - 0</b>	<b>Flammability - 1</b>	<b>Instability - 0</b>
<b>SDS Prepared By</b>	AES Drilling Fluids		
<b>Phone No.</b>	281-556-5628		
<b>Date of Preparation</b>	July 02, 2015		

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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 guarantee 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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