

## AES WA II

### SECTION 1. IDENTIFICATION

**Product Identifier** AES WA II  
**Recommended Use** Wetting Agent.  
**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** February 28, 2015

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Acute toxicity (Dermal) - Category 5; Serious eye damage/eye irritation - Category 2A; Carcinogenicity - Category 2; Aspiration hazard - Category 2

#### GHS Label Elements



Signal Word:

Warning

Hazard Statement(s):

H305 May be harmful if swallowed and enters airways.

H313 May be harmful in contact with skin.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

Precautionary Statement(s):

Prevention:

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE/doctor.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

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.

P401 Store

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers

Product Identifier: AES WA II

Date of Preparation: February 28, 2015

Page 01 of 06

Blend of Mineral Oil	64742-53-6	40-60	
Phospholipids	8030-76-0	40-60	

## SECTION 4. FIRST-AID MEASURES

### First-aid Measures

#### Inhalation

Remove source of contaminant or move to fresh air. 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

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation occurs get medical advice/attention. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely.

#### Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Seek 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, Foam, Dry chemical.

### Specific Hazards Arising from the Chemical

Closed containers may rupture violently when heated releasing contents.  
Oxides of carbon.

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

Containers may rupture from gas generation in a fire situation. Use water spray only to cool fully closed containers. 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

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. Prevent product from entering drains, soil, ditches, sewers, waterways and/or groundwater.

### Methods and Materials for Containment and Cleaning Up

Provide adequate ventilation to the spill area. Pump spilled product into suitable containers. Clean up residual with absorbent material, place in appropriate containers and flush with water. Prevent contamination of waterways or sewers.

### 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

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. See Section 8 for appropriate Personal Protective Equipment (PPE). Wash hands thoroughly after handling this material. Keep away from sources of ignition, No Smoking while working with this product.

Product Identifier: AES WA II  
Date of Preparation: February 28, 2015

## Conditions for Safe Storage

Store in an area that is: well-ventilated, cool, dry, separate from incompatible materials (see Section 10: Stability and Reactivity). Away from open flames, excessive heat or sources of ignition. Keep containers tightly closed when not in use.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL		AIHA® WEEL™	
	TWA	STEL [C]	TWA	Ceiling	8-hr TWA	Short-term TWA [C]
Blend of Mineral Oil	5 mg/m3		Not established		Not established	
Phospholipids	Not established		Not established		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.

### 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

#### Eye/Face Protection

Safety glasses with side shields. Wear chemical safety goggles if the product could be splashed.

#### Skin Protection

Wear gloves with appropriate chemical resistance, see manufacturers specifications for suitability. Wear long sleeves, long pants and appropriate footwear while working with product.

#### Respiratory Protection

If conditions exist above the OEL wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Dark amber liquid.
Odour	Faint
Odour Threshold	Not available
pH	Not available
Melting Point/Freezing Point	Not applicable (melting); Not applicable (freezing)
Initial Boiling Point/Range	Not available
Evaporation Rate	Not applicable
Flammability (solid, gas)	Will not burn.
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	0.91
Solubility	Insoluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not applicable

### Other Information

Product Identifier: AES WA II

Date of Preparation: February 28, 2015

Page 03 of 06

**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**

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

**Incompatible Materials**

Strong Oxidizing Agents.

**Hazardous Decomposition Products**

Oxides of carbon.

**SECTION 11. TOXICOLOGICAL INFORMATION****Likely Routes of Exposure**

Inhalation; eye contact; skin contact; ingestion.

**Acute Toxicity**

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Blend of Mineral Oil	Not available	> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)
Phospholipids	Not available	Not available	Not available

**Skin Corrosion/Irritation**

May cause skin irritation.

**Serious Eye Damage/Irritation**

May cause serious eye irritation or corneal injury.

**STOT (Specific Target Organ Toxicity) - Single Exposure****Inhalation**

May cause irritation of the respiratory tract. Contains soy, may cause allergic reaction in certain individuals.

**Skin Absorption**

Not harmful.

**Ingestion**

May be harmful if ingested may cause. irritation of the gastrointestinal tract, nausea, vomiting, diarrhea.

**Aspiration Hazard**

Liquid may be aspirated into the lungs during ingestion or vomiting resulting in lung injury.

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

Prolonged skin contact may aggravate existing skin conditions such as dermatitis.

**Respiratory and/or Skin Sensitization**

Not a respiratory sensitizer. Not a skin sensitizer.

**Carcinogenicity**

Chemical Name	IARC	ACGIH®	NTP	OSHA
Blend of Mineral Oil	Group 3	A4	Known carcinogen	Not Listed
Phospholipids	Not Listed	Not Listed	Not Listed	Not Listed

The National Toxicology Program rates Mineral oils as known to be human carcinogens.

Product Identifier: AES WA II

Date of Preparation: February 28, 2015

## 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. A4 = Not classifiable as a human carcinogen.  
NTP = National Toxicology Program. Known carcinogen = Known human carcinogen. 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

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
Blend of Mineral Oil	Not available	Not available	Not available	Not available
Phospholipids	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.

## 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 listed on the TSCA Inventory. 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.

Product Identifier: AES WA II

Date of Preparation: February 28, 2015

Page 05 of 06

## SECTION 16. OTHER INFORMATION

**NFPA Rating**            **Health - 1**    **Flammability - 0**    **Instability - 0**

**SDS Prepared By**    AES Drilling Fluids

**Phone No.**            281-556-5628

**Date of Preparation**   February 28, 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 guarantee of any kind, express or implied and we assume no responsibility for any loss, damage, direct or consequential, arising out of their use.

---

Product Identifier:        AES WA II

Date of Preparation:     February 28, 2015

Page 06 of 06