

# AES VIS III

# **SECTION 1. IDENTIFICATION**

Product Identifier	AES VIS III
Other Means of Identification	Organic Clay / Quaternary Ammonium Bentonite
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. Date of Preparation	CHEMTREC, 1-800-424-9300, 24-hour Emergency March 30, 2015

# **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Acute toxicity (Oral) - Category 4; Carcinogenicity - Category 1A; Specific target organ toxicity (repeated exposure) - Category 1

#### **GHS Label Elements**



Signal Word:	
Danger	
Hazard Statem	ent(s):
H302	Harmful if swallowed.
Dust in eye mag	y result in mechanical irritation.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H350	May cause cancer.
Precautionary S	Statement(s):
Prevention:	
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust.
P271	Use only outdoors or in a well-ventilated area.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
Response:	
P301 + P312	IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P330	Rinse mouth.
P304 + P340	
P308 + P313	IF exposed or concerned: Get medical advice/attention.
	nse cautiously with water for several minutes.
P337 + P313 Storage:	If eye irritation persists: Get medical advice/attention.
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
Treated Clay	CBI*	90-99	
Silica, quartz	14808-60-7	0.1-1.0	

Notes

The specific chemical identity and/or exact percentage of composition (concentration) has been withheld as a trade secret.

CBI = Confidential Business Information.

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

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

#### Inhalation

Remove source of contaminant or move to fresh air. Get medical advice/attention if irritation develops.

#### 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

Rinse mouth with water. Seek medical advice.

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

#### Suitable Extinguishing Media

Water, Carbon Dioxide, Foam, Dry chemical.

#### Specific Hazards Arising from the Chemical

Does not burn.

In a fire, the following hazardous materials may be generated: 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

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. Do not allow into any sewer, on the ground or into any waterway.

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

Eliminate all ignition sources. Vacuum or sweep product up, try to minimize dust build-up. Wet sweeping may be used to minimize dust build-up. Store recovered product in suitable containers that are: tightly-covered. Containerize for solid waste disposal.

### **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. Only use

where there is adequate ventilation. Avoid creating excessive dust while handling the product. See Section 8 for appropriate Personal Protective Equipment (PPE). Eliminate ignition sources in dusty conditions.

#### Conditions for Safe Storage

Store in an area that is: well-ventilated. Keep containers tightly closed when not in use. Use good housekeeping to prevent accumulation of dust. Eliminate nearby ignition sources.

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control Parameters**

	OSHA	OSHA PEL		ACGIH® TLV®		AIHA® WEEL™	
Chemical Name	TWA	Ceiling	TWA	STEL [C]	8-hr TWA	Short-term TWA [C]	
Silica, quartz	0.1 mg/m3		0.025 mg/m3 A2		Not established		
Treated Clay	Not established		Not established		Not established		

ACGIH® = American Conference of Governmental Industrial Hygienists. TWA = Time-Weighted Average. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. AIHA® = AIHA® Guideline Foundation. WEEL<sup>™</sup> = 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 or goggles. Use goggles or face shield when there is risk of eye contact or visible dust produced. **Skin Protection** 

Work gloves. 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 respirator.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **Basic Physical and Chemical Properties**

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Appearance	Tan powder.
Odour	Faint
рН	Not available
Melting Point/Freezing Point	Not applicable (melting); Not applicable (freezing)
Initial Boiling Point/Range	Not available
Flash Point	Not available
Evaporation Rate	Not available
Flammability (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)	1.6
Solubility	Insoluble in water
Auto-ignition Temperature	Not 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 None known. Incompatible Materials None known. 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)
Silica, quartz	Not available	500 mg/kg (rat)	Not available
Treated Clay	Not available	Not available	Not available

#### **Skin Corrosion/Irritation**

Irritating to skin, prolonged contact can de fat the skin and cause dermatitis.

#### Serious Eye Damage/Irritation

May cause eye irritation. May cause mechanical irritation to eyes.

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

Inhalation

May cause irritation of the mucous membranes and upper respiratory tract. May aggravate asthma.

#### **Skin Absorption**

Not harmful.

Ingestion

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

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

This product may contain trace amounts of crystalline silica (quartz). Long term exposure to respirable crystalline silica dust over the TLV may lead to the development of silicosis or other respiratory problems. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. May cause chronic bronchitis (inflammation of the airways leading to the lungs).

#### **Respiratory and/or Skin Sensitization**

Not a respiratory sensitizer. Not a skin sensitizer.

#### Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Silica, quartz	Group 1	A2	Known carcinogen	Not Listed
Treated Clay	Not Listed	Not Listed	Not Listed	Not Listed

This product may contain trace amounts of crystalline silica which the International Agency for Research on Cancer (IARC) has listed as causing cancer in humans.

#### Key to Abbreviations

IARC = International Agency for Research on Cancer. Group 1 = Carcinogenic to humans. ACGIH® = American Conference of Governmental Industrial Hygienists. A2 = Suspected human carcinogen. NTP = National Toxicology Program. OSHA = US Occupational Safety and Health Administration.

#### **Reproductive Toxicity**

#### **Development of Offspring**

Not known to harm the unborn child.

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

Not known to cause effects on sexual function or fertility.

#### Germ Cell Mutagenicity

Not known to be a mutagen.

#### Interactive Effects

Smoking and being exposed to free silica may cause a greater risk of developing certain pulmonary illnesses.

# **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
Silica, quartz	Not available	Not available	Not available	Not available
Treated Clay	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.

#### 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: Immediate Health Hazard Chronic Health Hazard. SARA Title III - Section 313: No chemicals are reportable under Section 313.

Product Identifier:

er: AES VIS III

Date of Preparation: March 30, 2015

# 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	March 30, 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

products to ensure the safety and health of their employees and to comply with various law 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.

