

AES VIS LS

SECTION 1. IDENTIFICATION

Product Identifier	AES VIS LS
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 31, 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 ma	y result in mechanical irritation.
Harmful if inhal	led.
H372	Causes damage to organs through prolonged or repeated exposure.
H350	May cause cancer.
Precautionary	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.
	P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present
	. Continue rinsing.
P337 + P313	
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Treated Clay	CBI*	90-99	
Silica, quartz	14808-60-7	1-10	

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

	ACGIH®	ACGIH® TLV®		OSHA PEL		AIHA® WEEL™	
Chemical Name	TWA	STEL [C]	TWA	Ceiling	8-hr TWA	Short-term TWA [C]	
Silica, quartz	0.025 mg/m3 A2		0.1 mg/m3		Not established		
Treated Clay	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 or goggles. Use goggles or face shield when there is risk of eye contact or visible dust produced. **Skin Protection**

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

Appearance	Tan powder.
Odour	Faint
рН	Not available
Melting Point/Freezing Poir	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 Explosive Limit	or Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.7 - 1.8
Solubility	Insoluble in water
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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 contains small 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		ARC	ACGIH®	NTP	OSHA
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Silica, quartz	Group 1	A2	Known carcinogen	Not Listed
Treated Clay	Not Listed	Not Listed	Not Listed	Not Listed

This product contains free 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. Group 2A = Probably carcinogenic to humans. 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: Acute Hazards Chronic Health Hazard. SARA Title III - Section 313: No chemicals are reportable under Section 313.

SECTION 16. OTHER INFORMATION

NFPA Rating SDS Prepared By	Health - 1 Flammability - 1 Instability - 0 AES Drilling Fluids
Phone No.	281-556-5628
Date of Preparation	March 31, 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.

