

**SAFETY DATA SHEET****Product Trade Name:** AQLB-3**Revision Date:** 09-Feb-2015**Revision Number:** 3**1. Identification****1.1. Product Identifier**

**Product Trade Name:** AQLB-3  
**Synonyms:** None  
**Chemical Family:** Acetate  
**Internal ID Code** HM007440

**1.2 Recommended use and restrictions on use**

**Application:** Additive  
**Uses Advised Against** No information available

**1.3 Manufacturer's Name and Contact Details**

**Manufacturer/Supplier** Halliburton Energy Services, Inc.  
P.O. Box 1431  
Duncan, Oklahoma 73536-0431  
Emergency Telephone: (281) 575-5000

**Prepared By** Chemical Stewardship  
Telephone: 1-580-251-4335  
e-mail: fdunexchem@halliburton.com

**1.4. Emergency telephone number**

**Emergency Telephone Number** (281) 575-5000

**2. Hazard(s) Identification****2.1 Classification in accordance with paragraph (d) of §1910.1200**

Not classified

**2.2. Label Elements****Hazard Pictograms**

**Signal Word** Not Classified

**Hazard Statements** Not Hazardous

**Precautionary Statements**

**Prevention** None

**Response** None

**Storage** None

**Disposal** None

**Contains**

| Substances                       | CAS Number | GHS Classification - US |
|----------------------------------|------------|-------------------------|
| Contains no hazardous substances | NA         | Not applicable          |

**2.3 Hazards not otherwise classified**

None known

**3. Composition/information on Ingredients**

| Substances                       | CAS Number | PERCENT (w/w) | GHS Classification - US |
|----------------------------------|------------|---------------|-------------------------|
| Contains no hazardous substances | NA         | 60 - 100%     | Not classified          |

The exact percentage (concentration) of the composition has been withheld as a trade secret.

**4. First-Aid Measures****4.1. Description of first aid measures**

|                   |  |
|-------------------|--|
| <b>Inhalation</b> | If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.                     |
| <b>Eyes</b>       | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.                  |
| <b>Skin</b>       | Wash with soap and water. Get medical attention if irritation persists.  |
| <b>Ingestion</b>  | Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person. |

**4.2 Most important symptoms/effects, acute and delayed**

No significant hazards expected.

**4.3. Indication of any immediate medical attention and special treatment needed**

|                    |                       |
|--------------------|-----------------------|
| Notes to Physician | Treat symptomatically |
|--------------------|-----------------------|

**5. Fire-fighting measures****5.1. Extinguishing media****Suitable Extinguishing Media**

Water fog, carbon dioxide, foam, dry chemical.

**Extinguishing media which must not be used for safety reasons**

None known.

**5.2 Specific hazards arising from the substance or mixture****Special Exposure Hazards**

Decomposition in fire may produce toxic gases.

**5.3 Special protective equipment and precautions for fire-fighters****Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

**6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use appropriate protective equipment.

See Section 8 for additional information

**6.2. Environmental precautions**

Prevent from entering sewers, waterways, or low areas.

**6.3. Methods and material for containment and cleaning up**

Scoop up and remove.

**7. Handling and storage****7.1. Precautions for Safe Handling****Handling Precautions**

Avoid contact with eyes, skin, or clothing.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities****Storage Information**

Store in a cool, dry location. Store away from oxidizers.

**8. Exposure Controls/Personal Protection****8.1 Occupational Exposure Limits**

| Substances                       | CAS Number | OSHA PEL-TWA   | ACGIH TLV-TWA  |
|----------------------------------|------------|----------------|----------------|
| Contains no hazardous substances | NA         | Not applicable | Not applicable |

**8.2 Appropriate engineering controls**

**Engineering Controls** Use in a well ventilated area.

**8.3 Individual protection measures, such as personal protective equipment****Respiratory Protection**

If engineering controls and work practices cannot keep exposure below occupational exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, AS/NZS 1715:2009, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or other qualified professional.

Not normally needed. But if significant exposures are possible then the following respirator is recommended:

Dust/mist respirator. (N95, P2/P3)

**Hand Protection**

Normal work gloves.

**Skin Protection**

Normal work coveralls.

**Eye Protection**

Wear safety glasses or goggles to protect against exposure.

**Other Precautions**

None known.

**9. Physical and Chemical Properties****9.1. Information on basic physical and chemical properties**

**Physical State:** Powder

**Color:** White

**Odor:** Mild acidic

**Odor Threshold:** No information available

Property

Values

Remarks/ - Method

**pH:**

8.5-10

|  |                          |
|--|--------------------------|
| Freezing Point/Range                   | 120 °C                   |
| Melting Point/Range                    | No data available        |
| Boiling Point/Range                    | 324 °C / 615 °F          |
| Flash Point                            | No data available        |
| upper flammability limit               | No data available        |
| lower flammability limit               | No data available        |
| Evaporation rate                       | No data available        |
| Vapor Pressure                         | No data available        |
| Vapor Density                          | No data available        |
| Specific Gravity                       | 1.45                     |
| Water Solubility                       | Soluble in water         |
| Solubility in other solvents           | No data available        |
| Partition coefficient: n-octanol/water | No data available        |
| Autoignition Temperature               | 611 °C / 1132 °F         |
| Decomposition Temperature              | No data available        |
| Viscosity                              | No data available        |
| Explosive Properties                   | No information available |
| Oxidizing Properties                   | No information available |

**9.2. Other information**

|                 |                   |
|-----------------|-------------------|
| VOC Content (%) | No data available |
|-----------------|-------------------|

**10. Stability and Reactivity****10.1. Reactivity**

Not applicable

**10.2. Chemical Stability**

Stable

**10.3. Possibility of Hazardous Reactions**

Will Not Occur

**10.4. Conditions to Avoid**

None anticipated

**10.5. Incompatible Materials**

Strong acids. Strong oxidizers.

**10.6. Hazardous Decomposition Products**

Acetic acid. Carbon monoxide and carbon dioxide.

**11. Toxicological Information****11.1 Information on likely routes of exposure**

|                             |                                  |
|-----------------------------|----------------------------------|
| Principle Route of Exposure | Eye or skin contact, inhalation. |
|-----------------------------|----------------------------------|

**11.2 Symptoms related to the physical, chemical and toxicological characteristics****Acute Toxicity**

|              |  |
|--------------|--|
| Inhalation   | May cause mild respiratory irritation. |
| Eye Contact  | Non-irritating to rabbit's eye         |
| Skin Contact | None known.                            |
| Ingestion    | None known                             |

**Chronic Effects/Carcinogenicity** No data available to indicate product or components present at greater than 1% are chronic health hazards.

### 11.3 Toxicity data

#### Toxicology data for the components

| Substances                       | CAS Number | LD50 Oral         | LD50 Dermal       | LC50 Inhalation   |
|----------------------------------|------------|-------------------|-------------------|-------------------|
| Contains no hazardous substances | NA         | No data available | No data available | No data available |

## 12. Ecological Information

### 12.1. Toxicity

#### Ecotoxicity Effects

#### Product Ecotoxicity Data

No data available

#### Substance Ecotoxicity Data

| Substances                       | CAS Number | Toxicity to Algae        | Toxicity to Fish         | Toxicity to Microorganisms | Toxicity to Invertebrates |
|----------------------------------|------------|--------------------------|--------------------------|----------------------------|---------------------------|
| Contains no hazardous substances | NA         | No information available | No information available | No information available   | No information available  |

### 12.2. Persistence and degradability

| Substances                       | CAS Number | Persistence and Degradability |
|----------------------------------|------------|-------------------------------|
| Contains no hazardous substances | NA         | No information available      |

### 12.3. Bioaccumulative potential

| Substances                       | CAS Number | Log Pow                  |
|----------------------------------|------------|--------------------------|
| Contains no hazardous substances | NA         | No information available |

### 12.4. Mobility in soil

No information available

### 12.6. Other adverse effects

No information available

## 13. Disposal Considerations

### 13.1. Waste treatment methods

#### Disposal Method

Disposal should be made in accordance with federal, state, and local regulations.

#### Contaminated Packaging

Follow all applicable national or local regulations.

**14. Transport Information****US DOT**

UN Number: Not restricted  
UN Proper Shipping Name: Not restricted  
Transport Hazard Class(es): Not applicable  
Packing Group: Not applicable  
Environmental Hazards: Not applicable

**US DOT Bulk**

DOT (Bulk) Not applicable

**Canadian TDG ul0**

Packing Group: Not applicable  
Environmental Hazards: Not applicable

**IMDG/IMO**

UN Number: Not restricted  
UN Proper Shipping Name: Not restricted  
Transport Hazard Class(es): Not applicable  
Packing Group: Not applicable  
Environmental Hazards: Not applicable

**IATA/ICAO**

UN Number: Not restricted  
UN Proper Shipping Name: Not restricted  
Transport Hazard Class(es): Not applicable  
Packing Group: Not applicable  
Environmental Hazards: Not applicable

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable

**Special Precautions for User:** None

**15. Regulatory Information****US Regulations**

**US TSCA Inventory** All components listed on inventory or are exempt.

**EPA SARA Title III Extremely Hazardous Substances** Not applicable

**EPA SARA (311,312) Hazard Class** None

**EPA SARA (313) Chemicals** This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372).

**EPA CERCLA/Superfund Reportable Spill Quantity** Not applicable.

**EPA RCRA Hazardous Waste Classification** If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.

|                                  |   |
|----------------------------------|---|
| <b>California Proposition 65</b> | All components listed do not apply to the California Proposition 65 Regulation. |
| <b>MA Right-to-Know Law</b>      | Does not apply.   |
| <b>NJ Right-to-Know Law</b>      | Does not apply.   |
| <b>PA Right-to-Know Law</b>      | Does not apply.   |

## Canadian Regulations

|                               |   |
|-------------------------------|---|
| <b>Canadian DSL Inventory</b> | All components listed on inventory or are exempt. |
|-------------------------------|---|

## 16. Other information

### Preparation Information

|                    |   |
|--------------------|---|
| <b>Prepared By</b> | Chemical Stewardship<br>Telephone: 1-580-251-4335<br>e-mail: fdunexchem@halliburton.com |
|--------------------|---|

**Revision Date:** 09-Feb-2015

**Reason for Revision** Update to Format SECTION: 2

### Additional information

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Safety Data Sheet for this or other Halliburton products, contact Chemical Stewardship at 1-580-251-4335.

### Key or legend to abbreviations and acronyms

bw – body weight  
CAS – Chemical Abstracts Service  
EC50 – Effective Concentration 50%  
ErC50 – Effective Concentration growth rate 50%  
LC50 – Lethal Concentration 50%  
LD50 – Lethal Dose 50%  
LL50 – Lethal Loading 50%  
mg/kg – milligram/kilogram  
mg/L – milligram/liter  
NIOSH – National Institute for Occupational Safety and Health  
NTP – National Toxicology Program  
OEL – Occupational Exposure Limit  
PEL – Permissible Exposure Limit  
ppm – parts per million  
STEL – Short Term Exposure Limit  
TWA – Time-Weighted Average  
UN – United Nations  
h - hour  
mg/m<sup>3</sup> - milligram/cubic meter  
mm - millimeter  
mmHg - millimeter mercury  
w/w - weight/weight  
d - day

**Key literature references and sources for data**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

**Disclaimer Statement**

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**End of Safety Data Sheet**