# HALLIBURTON

# SAFETY DATA SHEET

Product Trade Name: AQUA-LATE®

Revision Date: 11-Jun-2015 Revision Number: 6

1. Identification

1.1. Product Identifier

Product Trade Name: AQUA-LATE®

Synonyms: None
Chemical Family: Olefin
Internal ID Code HM006495

1.2 Recommended use and restrictions on use

Application: Spacer

Uses Advised Against No information available

1.3 Manufacturer's Name and Contact Details

Manufacturer/Supplier Baroid Fluid Services

Product Service Line of Halliburton

P.O. Box 1675 Houston, TX 77251

Telephone: (281) 871-4000

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

Aspiration Category 1 - H304

2.2. Label Elements

#### **Hazard Pictograms**



Signal Word Danger

Hazard Statements H304 - May be fatal if swallowed and enters airways

## **Precautionary Statements**

**Prevention** None

Response P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician

P331 - Do NOT induce vomiting

Storage P405 - Store locked up

**Disposal** P501 - Dispose of contents/container in accordance with

local/regional/national/international regulations

**Contains** 

SubstancesCAS NumberIsomerized alpha olefinsProprietary

## 2.3 Hazards not otherwise classified

None known

# 3. Composition/information on Ingredients

Substances	CAS Number	PERCENT (w/w)	GHS Classification - US
Isomerized alpha olefins	Proprietary	60 - 100%	Asp. Tox. 1 (H304)

The specific chemical identity of the composition has been withheld as proprietary. The exact percentage (concentration) of the composition has been withheld as proprietary.

## 4. First-Aid Measures

### 4.1. Description of first aid measures

**Inhalation** If inhaled, remove from area to fresh air. Get medical attention if respiratory

irritation develops or if breathing becomes difficult.

Eyes In case of contact, immediately flush eyes with plenty of water for at least 15

minutes and get medical attention if irritation persists.

**Skin** Wash with soap and water. Get medical attention if irritation persists.

**Ingestion** Get medical attention! If vomiting occurs, keep head lower than hips to prevent

aspiration.

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

May cause lung damage if swallowed. Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.

#### 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

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Scoop up and remove.

## 7. Handling and storage

## 7.1. Precautions for Safe Handling

## **Handling Precautions**

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse. Ground and bond containers when transferring from one container to another.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage Information

Store away from oxidizers. Store away from acids. Keep container closed when not in use. Product has a shelf life of 36 months.

# 8. Exposure Controls/Personal Protection

## 8.1 Occupational Exposure Limits

Substances	CAS Number	OSHA PEL-TWA	ACGIH TLV-TWA
Isomerized alpha olefins	Proprietary	Not applicable	Not applicable

## 8.2 Appropriate engineering controls

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without good cross ventilation.

8.3 Individual protection measures, such as personal protective equipment

Personal Protective Equipment If engineering controls and work practices cannot prevent excessive exposures,

the selection and proper use of personal protective equipment should be

determined by an industrial hygienist or other qualified professional based on the

Use in a well ventilated area. Local exhaust ventilation should be used in areas

specific application of this product.

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: Organic vapor respirator.

**Hand Protection** Impervious rubber gloves. Nitrile gloves. Use Viton or 4H gloves.

**Skin Protection** Rubber apron.

**Engineering Controls** 

**Eye Protection** Chemical goggles; also wear a face shield if splashing hazard exists.

Other Precautions None known.

## 9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State:LiquidColor:Colorless to Light yellowOdor:HydrocarbonOdorNo information available

Threshold:

Property Values

Remarks/ - Method

pH: No data available Freezing Point/Range < -10 °C / < 15 °F Melting Point/Range No data available °C

Boiling Point/Range > 270 °C /

Flash Point 130 °C / 266 °F PMCC

Flammability (solid, gas) No data available

upper flammability limit 3.4

lower flammability limit

**Evaporation rate**Vapor Pressure
No data available
0.013 mmHg

Vapor Density 8
Specific Gravity 0.78

Water Solubility
Solubility in other solvents
Partition coefficient: n-octanol/water
Autoignition Temperature
Viscosity

Insoluble in water
No data available

Explosive Properties

No information available
No information available

9.2. Other information

VOC Content (%) No data available

## 10. Stability and Reactivity

#### 10.1. Reactivity

Not expected to be reactive.

## 10.2. Chemical Stability

Stable

## 10.3. Possibility of Hazardous Reactions

Will Not Occur

#### 10.4. Conditions to Avoid

Keep away from heat, sparks and flame.

## 10.5. Incompatible Materials

Strong oxidizers.

## 10.6. Hazardous Decomposition Products

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** 

InhalationNot a likely route of exposure.Eye ContactMay cause mild eye irritation.Skin ContactMay cause mild skin irritation.

**Ingestion** Aspiration into the lungs may cause chemical pneumonitis including coughing,

difficulty breathing, wheezing, coughing up blood and pneumonia, which can be

fatal.

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 0.1%

are chronic health hazards.

#### 11.3 Toxicity data

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isomerized alpha olefins	Proprietary	> 5050 mg/kg (Rat)	> 5000 mg/kg > 2020 mg/kg (Rabbit)	> 2.1 mg/L 6.35 mg/L (Rat) 4h (similar substance)

Substances	CAS Number	Skin corrosion/irritation
Isomerized alpha olefins		Not irritating to skin in rabbits. (similar substances)

Substances	CAS Number	Eye damage/irritation
Isomerized alpha olefins		Non-irritating to rabbit's eye (similar substances)

Substances	CAS Number	Skin Sensitization
Isomerized alpha olefins		Did not cause sensitization on laboratory animals (similar substances)

Substances	CAS Number	Respiratory Sensitization

Isomerized alpha olefins		No information available
Substances	CAS Number	Mutagenic Effects
Isomerized alpha olefins		In vitro tests have shown mutagenic effects (similar substances)
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Substances	CAS Number	Carcinogenic Effects
Isomerized alpha olefins		No information available.
Substances	CAS Number	Reproductive toxicity
	OAS Number	
Isomerized alpha olefins		Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments. (similar substances)
Substances	CAS Number	STOT - single exposure
Isomerized alpha olefins		No information available
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Substances	CAS Number	STOT - repeated exposure
Isomerized alpha olefins		No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)
Substances	CAS Number	Aspiration hazard
Isomerized alpha olefins		Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.

# 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
Isomerized alpha olefins	Proprietary	EC50 (96h) >1000 mg/L (Skeletonema costatum) ErC50 (48h) 1000 mg/L (Selenastrum capricornutum) (similar substance)	LC50 > 1000 mg/L (Cyprinodon variegatus) LL50 > 1000 mg/L (Oncorhynchus mykiss) (similar substance)	No information available	EC50 >1000 mg/L (Mysidopsis bahia)

## 12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Isomerized alpha olefins	Proprietary	Readily biodegradable (88% @ 28d)

## 12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
Isomerized alpha olefins	Proprietary	> 6

## 12.4. Mobility in soil

Substances	CAS Number	Mobility
Isomerized alpha olefins	Proprietary	No information available

## 12.5 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:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:
Environmental Hazards:
Not restricted
Not restricted
Not applicable
Not applicable

**US DOT Bulk** 

DOT (Bulk) Not applicable

**Canadian TDG** 

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

Acute Health Hazard

**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.

**California Proposition 65** All components listed do not apply to the California Proposition 65 Regulation.

MA Right-to-Know Law Does not apply.

NJ Right-to-Know Law Does not apply.

PA Right-to-Know Law Does not apply.

**Canadian Regulations** 

**Canadian DSL Inventory** Product contains one or more components not listed on the inventory.

# 16. Other information

**Preparation Information** 

Prepared By

Chemical Stewardship Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

Revision Date: 11-Jun-2015

Reason for Revision SDS sections updated:

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/

#### **Disclaimer Statement**

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

**End of Safety Data Sheet**