# **HALLIBURTON**

# SAFETY DATA SHEET

Product Trade Name: QUIK-FOAM® HP

Revision Date: 11-Jun-2020 Revision Number: 1

### 1. Identification

1.1. Product Identifier

Product Trade Name: QUIK-FOAM® HP

Synonyms None
Chemical Family: Blend
Internal ID Code HM009405

1.2 Recommended use and restrictions on use Application: Foaming Agent

Uses advised against No information available

### 1.3 Manufacturer's Name and Contact Details

Manufacturer/Supplier

**Baroid Industrial Drilling Products** 

Product Service Line of Halliburton Energy Services, Inc.

P.O. Box 1675 Houston, TX 77251

Telephone: (281) 871-4613 or 1-877-379-7412

Baroid Industrial Drilling Products 645 - 7th Ave SW Suite 1800 Calgary, AB

Calgary, AB T2P 4G8 Canada

Telephone: 1-403-231-9300

Prepared By Chemical Stewardship

Telephone: 1-281-871-6107

e-mail: fdunexchem@halliburton.com

1.4. Emergency telephone number:

Emergency Telephone Number 1-866-519-4752 or 1-760-476-3962 (accessible 24 hours a day / 7 days a week)

Global Incident Response Access Code: 334305

Contract Number: 14012

### 2. Hazards Identification

### 2.1 Classification in accordance with paragraph (d) of §1910.1200

| Skin Corrosion / Irritation   | Category 2 - H315 |
|-------------------------------|-------------------|
| Serious Eye Damage/Irritation | Category 1 - H318 |
| Acute Aquatic Toxicity        | Category 2 - H401 |
| Chronic Aquatic Toxicity      | Category 3 - H412 |
| Flammable liquids.            | Category 3 - H226 |

#### 2.2. Label Elements

**Hazard Pictograms** 



Signal Word: Danger

**Hazard Statements** H226 - Flammable liquid and vapor

H315 - Causes skin irritation

H318 - Causes serious eye damage

H401 - Toxic to aquatic life

H412 - Harmful to aquatic life with long lasting effects

#### **Precautionary Statements**

**Prevention** P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P233 - Keep container tightly closed

P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting/equipment

P242 - Use only non-sparking tools

P243 - Take action to prevent static discharges.

P264 - Wash face, hands and any exposed skin thoroughly after handling

P273 - Avoid release to the environment

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

Response P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water [or shower].

P362 + P364 - Take off contaminated clothing and wash before reuse P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician P370 + P378 - In case of fire: Use CO2, dry chemical, or foam P403 + P235 - Store in a well-ventilated place. Keep cool

**Storage** P403 + P235 - Store in a well-ventilated place. Keep coo Pisposal P501 - Dispose of contents/container in accordance with

local/regional/national/international regulations

### 2.3 Hazards not otherwise classified

None known

# 3. Composition/information on Ingredients

| Substances                           | CAS Number  | PERCENT (w/w) | GHS Classification - US  |
|--------------------------------------|-------------|---------------|--------------------------|
| Ammonium Salt of Ethoxylated Alcohol | Proprietary | 30 - 60%      | Skin Irrit. 2 (H315)     |
| Sulfate                              |             |               | Eye Corr. 1 (H318)       |
|                                      |             |               | Aquatic Acute 2 (H401)   |
|                                      |             |               | Aquatic Chronic 3 (H412) |

| Isopropanol   | 67-63-0     | 10 - 30% | Eye Irrit. 2 (H319)<br>STOT SE 3 (H336)<br>Flam. Liq. 2 (H225)                                     |
|---------------|-------------|----------|--|
| Surfactant    | Proprietary | 10 - 30% | Skin Irrit. 2 (H315) Eye Corr. 1 (H318) Aquatic Acute 2 (H401) Aquatic Chronic 3 (H412)            |
| Ethanol       | 64-17-5     | 5 - 10%  | Eye Irrit. 2A (H319)<br>Flam. Liq. 2 (H225)  |
| Ammonium salt | Proprietary | 1 - 5%   | Acute Tox. 4 (H302) Skin Corr. 1 (H314) Eye Corr. 1 (H318) STOT SE 3 (H335) Aquatic Acute 2 (H401) |

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 Immediately flush eyes with large amounts of water for at least 30 minutes. Seek

prompt medical attention.

Skin In case of contact, immediately flush skin with plenty of soap and water for at least

15 minutes. Get medical attention.

**Ingestion** Rinse mouth with water many times. Get medical attention, if symptoms occur

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

Causes severe eye irritation which may damage tissue. Causes skin irritation.

### 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

Do NOT spray pool fires directly with water. A solid stream of water directed into hot burning liquid can cause splattering.

#### 5.2 Specific hazards arising from the substance or mixture

#### Special exposure hazards in a fire

Decomposition in fire may produce harmful gases. Vapors are heavier than air and may accumulate in low areas. Vapors may travel along the ground to be ignited at distant locations.

#### 5.3 Special protective equipment and precautions for fire-fighters

### Special protective equipment for firefighters

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

Avoid contact with skin, eyes and clothing. Do not breathe dust, vapors or spray mist. Ensure adequate ventilation. Remove sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded.

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

Remove ignition sources and work with non-sparking tools. Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

# 7. Handling and storage

#### 7.1. Precautions for safe handling

#### **Handling Precautions**

Ensure adequate ventilation. Use appropriate protective equipment. Remove sources of ignition. Ground and bond containers when transferring from one container to another. 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 well ventilated area. Store away from oxidizers. Keep from heat, sparks, and open flames. Keep container closed when not in use.

### 8. Exposure Controls/Personal Protection

### 8.1 Occupational Exposure Limits

| Substances                                   | CAS Number  | OSHA PEL-TWA                                 | ACGIH TLV-TWA                 |
|--|-------------|--|-------------------------------|
| Ammonium Salt of Ethoxylated Alcohol Sulfate | Proprietary | Not applicable                               | Not applicable                |
| Isopropanol                                  | 67-63-0     |  | TWA: 200 ppm<br>STEL: 400 ppm |
| Surfactant                                   | Proprietary | Not applicable                               | Not applicable                |
| Ethanol                                      | 64-17-5     | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup> | STEL: 1000 ppm                |
| Ammonium salt                                | Proprietary | Not applicable                               | Not applicable                |

#### 8.2 Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas

### 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

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. Organic vapor respirator.

Hand Protection Impervious rubber gloves. Manufacturer's directions for use should be observed

because of great diversity of types.

**Skin Protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron, rain

jacket, pants or coverall, as appropriate, to prevent skin contact.

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

Eyewash fountains and safety showers must be easily accessible.

# 9. Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

Physical State: Liquid Color Light yellow

Odor: Not determined Odor No information available

Threshold:

<u>Property</u> <u>Values</u>

Remarks/ - Method

pH: No data available
 Freezing Point / Range No data available
 Melting Point / Range No data available
 Pour Point / Range No data available
 Boiling Point / Range No data available

Flash Point 30 °C / 86 °F ASTM D7094

Flammability (solid, gas) 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** No data available Water Solubility Soluble in water Solubility in other solvents No data available No data available Partition coefficient: n-octanol/water **Autoignition Temperature** No data available **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 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.

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# 10.6. Hazardous decomposition products

Carbon oxides. Oxides of nitrogen. Oxides of sulfur.

# 11. Toxicological Information

### 11.1 Information on likely routes of exposure

Principle Route of Exposure Ingestion. Skin contact. Eye contact. Inhalation.

# 11.2 Symptoms related to the physical, chemical and toxicological characteristics

**Acute Toxicity** 

**Inhalation** May cause mild respiratory irritation.

**Eye Contact** Causes serious eye damage.

**Skin Contact** Causes skin irritation.

**Ingestion** May cause abdominal pain, vomiting, nausea, and diarrhea.

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            |
|--|-------------|---|--|----------------------------|
| Ammonium Salt of<br>Ethoxylated Alcohol<br>Sulfate | Proprietary | 4100 mg/kg (Rat) (Similar<br>substance) | >5000 mg/kg (Rabbit (Similar<br>substance)       | No data available          |
| Isopropanol  | 67-63-0     | 4700 mg/kg-bw (rat)                     | 12870 mg/kg-bw (rabbit)                          | 72.6 mg/L (Rat, 4h, vapor) |
| Surfactant   | Proprietary | > 2000 mg/kg (Rat) (similar substance)  | > 2000 mg/kg (Rabbit) (similar substance)        | No data available          |
| Ethanol  | 64-17-5     | 7060 mg/kg (Rat)<br>10,470 mg/kg (Rat)  | > 15,800 mg/kg (Rabbit)<br>17,100 mg/kg (Rabbit) | 124.7 mg/L (Rat) 4h        |
| Ammonium salt                                      | Proprietary | 1827 mg/kg (Rat)                        | 500 mg/kg (Rabbits)                              | No data available          |

| Substances                  | CAS Number | Skin corrosion/irritation  |
|-----------------------------|------------|--|
| Ammonium Salt of            |            | Causes moderate skin irritation. (Rabbit) (similar substances)                       |
| Ethoxylated Alcohol Sulfate |            |  |
| Isopropanol                 | 67-63-0    | Non-irritating to the skin (Rabbit)  |
| Surfactant                  |            | Skin, rabbit: Causes moderate skin irritation. (similar substances)                  |
| Ethanol                     | 64-17-5    | Not irritating to skin in rabbits.   |
| Ammonium salt               |            | Causes severe skin irritation with tissue destruction. (Rabbit) (similar substances) |

| Substances                                      | CAS Number | Serious eye damage/irritation   |
|---|------------|---|
| Ammonium Salt of<br>Ethoxylated Alcohol Sulfate |            | Causes severe eye irritation (Rabbit) (similar substances)                          |
| Isopropanol                                     | 67-63-0    | Causes moderate eye irritation (Rabbit)   |
| Surfactant                                      |            | Causes severe eye irritation which may damage tissue.                               |
| Ethanol   | 64-17-5    | Causes moderate eye irritation (Rabbit)   |
| Ammonium salt                                   |            | Causes severe eye irritation which may damage tissue. (Rabbit) (similar substances) |

| Substances                  | CAS Number | Skin Sensitization  |
|-----------------------------|------------|---|
| Ammonium Salt of            |            | Did not cause sensitization on laboratory animals (guinea pig) (similar substances) |
| Ethoxylated Alcohol Sulfate |            |   |
| Isopropanol                 | 67-63-0    | Did not cause sensitization on laboratory animals (guinea pig)                      |
| Surfactant                  |            | Did not cause sensitization on laboratory animals (similar substances)              |
| Ethanol                     | 64-17-5    | Did not cause sensitization on laboratory animals                                   |
| Ammonium salt               |            | Did not cause sensitization on laboratory animals (guinea pig) (similar substances) |

| Substances                  | CAS Number | Respiratory Sensitization |
|-----------------------------|------------|---------------------------|
| Ammonium Salt of            |            | No information available  |
| Ethoxylated Alcohol Sulfate |            |                           |

| Isopropanol   | 67-63-0 | No information available                          |
|---------------|---------|---|
| Surfactant    |         | No information available                          |
| Ethanol       | 64-17-5 | Did not cause sensitization on laboratory animals |
| Ammonium salt |         | No information available                          |

| Substances                  | CAS Number | Mutagenic Effects  |
|-----------------------------|------------|--|
| Ammonium Salt of            |            | In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects. (similar |
| Ethoxylated Alcohol Sulfate |            | substances)  |
| Isopropanol                 | 67-63-0    | In vitro tests did not show mutagenic effects. In vivo tests did not show mutagenic effects.         |
| Surfactant                  |            | In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects. (similar |
|                             |            | substances)  |
| Ethanol                     | 64-17-5    | Not regarded as mutagenic.   |
| Ammonium salt               |            | In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects. (similar |
|                             |            | substances)  |

| Substances                                      | CAS Number | Carcinogenic Effects   |
|---|------------|--|
| Ammonium Salt of<br>Ethoxylated Alcohol Sulfate |            | Did not show carcinogenic effects in animal experiments (similar substances) |
| Isopropanol                                     | 67-63-0    | Did not show carcinogenic effects in animal experiments                      |
| Surfactant                                      |            | Did not show carcinogenic effects in animal experiments (similar substances) |
| Ethanol   | 64-17-5    | Did not show carcinogenic effects in animal experiments                      |
| Ammonium salt                                   |            | Did not show carcinogenic effects in animal experiments (similar substances) |

| Substances                                      | CAS Number | Reproductive toxicity   |
|---|------------|---|
| Ammonium Salt of<br>Ethoxylated Alcohol Sulfate |            | Did not show teratogenic effects in animal experiments. (similar substances)  |
|   |            |   |
| Isopropanol                                     | 67-63-0    | Animal testing did not show any effects on fertility.   |
| Surfactant                                      |            | Did not show teratogenic effects in animal experiments. Not a confirmed reproductive toxicant. (similar substances) |
| Ethanol   | 64-17-5    | Animal testing did not show any effects on fertility.   |
| Ammonium salt                                   |            | Did not show teratogenic effects in animal experiments. (similar substances)  |

| Substances                                      | CAS Number | STOT - single exposure   |
|---|------------|--|
| Ammonium Salt of<br>Ethoxylated Alcohol Sulfate |            | No significant toxicity observed in animal studies at concentration requiring classification. (similar substances) |
| Isopropanol                                     | 67-63-0    | May cause headache, dizziness, and other central nervous system effects.   |
| Surfactant                                      |            | No data of sufficient quality are available.   |
| Ethanol   | 64-17-5    | No significant toxicity observed in animal studies at concentration requiring classification.                      |
| Ammonium salt                                   |            | May cause respiratory irritation. (similar substances)   |

| Substances                                      | CAS Number | STOT - repeated exposure   |
|---|------------|--|
| Ammonium Salt of<br>Ethoxylated Alcohol Sulfate |            | No significant toxicity observed in animal studies at concentration requiring classification. (similar substances) |
| Isopropanol                                     | I          | No significant toxicity observed in animal studies at concentration requiring classification. (similar substances) |
| Surfactant                                      |            | No significant toxicity observed in animal studies at concentration requiring classification. (similar substances) |
| Ethanol   | 64-17-5    | No significant toxicity observed in animal studies at concentration requiring classification.                      |
| Ammonium salt                                   | I          | No significant toxicity observed in animal studies at concentration requiring classification. (similar substances) |

| Substances                  | CAS Number | Aspiration hazard |
|-----------------------------|------------|-------------------|
| Ammonium Salt of            |            | Not applicable    |
| Ethoxylated Alcohol Sulfate |            |                   |
| Isopropanol                 | 67-63-0    | Not applicable    |
| Surfactant                  |            | Not applicable    |
| Ethanol                     | 64-17-5    | Not applicable    |
| Ammonium salt               |            | Not applicable    |

# 12. Ecological Information

12.1. Toxicity
Ecotoxicity effects

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

**Substance Ecotoxicity Data** 

| Substances   | CAS Number  | Toxicity to Algae   | Toxicity to Fish  | Toxicity to<br>Microorganisms                | Toxicity to Invertebrates  |
|--|-------------|---|---|--|--|
| Ammonium Salt of<br>Ethoxylated Alcohol<br>Sulfate | Proprietary | EC50 (72h) 73.52 mg/L (Skeletonema costatum) ErC50 (72h) 32 mg/L (Selenstrum capriconutum) (similar substance) NOErC (72h) 9 mg/L (Selenastrum capricornutum) NOEC (72h) 32 mg/L (Skeletonema costatum) | LC50 (96h) 1 - 2.5 mg/L<br>(Salmo trutta) (similar<br>substance)<br>LC50 (96h) 350 mg/L<br>(Scophthalmus maximus)<br>NOEC (30d) 0.88 mg/L<br>(Pimephales promelas)<br>(similar substance) | No information available                     | EC50 (48h) 1.17 mg/L<br>(Daphnia magna) (similar<br>substance)<br>LC50 (96h) 232.5 mg/L<br>(Acartia tonsa)<br>NOEC (21d) 0.37 mg/L<br>(Daphnia magna) (similar<br>substance)   |
| Isopropanol  | 67-63-0     | EC50 (72h) > 1000 mg/L<br>(Desmodesmus<br>subspicatus)<br>EC50 (7d) 1800 mg/L<br>(meanextinction<br>value)(Scenedesmus<br>quadricauda)  | LC50 (96h) 9640 mg/L<br>(Pimephales promelas)<br>LC50 (7d) 7060 mg/L<br>(Poecilia reticulata)   | TT (16h) 1050 mg/L<br>(Pseudomonas putida)   | EC50 (48 h)=2285 mg/L<br>(Daphnia sp.)<br>EC50 (24h) > 10,000<br>mg/L (Daphnia magna)  |
| Surfactant   | Proprietary | EC50 (5d) 101 mg/L<br>(Selenastrum<br>capricornutum) (similar<br>substance)   | NOEC (28d) 0.12 mg/L<br>(Oncorhynchus mykiss)<br>(similar substance)  | EC50 (3h) > 1600 mg/L<br>(similar substance) | EC50 (48h) 3.43 mg/L (Ceriodaphnia dubia) (similar substance) EC50 (24h) 21 mg/L (Daphnia magna) (similar substance) EC50 (96h) 5.7 mg/L (Daphnia magna) (similar substance) NOEC (7d) 0.34 mg/L (Ceriodaphnia dubia) (similar substance) NOEC (21d) 16.5 mg/L (Daphnia magna) (similar substance) NOEC (7d) 6.3 mg/L (Ceriodaphnia dubia) (similar substance) |
| Ethanol  | 64-17-5     | No information available  | LC50 > 100 mg/L<br>(Pimephales promelas)  | No information available                     | LC50 9268 - 14,221 mg/L<br>(Daphnia magna)<br>LC50 5012 mg/L<br>(Ceridaphnia dubia)<br>NOEC 9.6 mg/L (Daphnia<br>magna)  |
| Ammonium salt                                      | Proprietary | ErC50 (72h) 27 mg/L<br>(Desmodesmus<br>subspicatus) (similar<br>substance)  | LC50 (96h) 2.8 mg/L<br>(Danio rerio) (similar<br>substance)   | No information available                     | EC50 (24h) 23 mg/L<br>(Daphnia magna) (similar<br>substance)   |

# 12.2. Persistence and degradability

| Substances                                   | CAS Number  | Persistence and Degradability              |
|--|-------------|--|
| Ammonium Salt of Ethoxylated Alcohol Sulfate | Proprietary | Readily biodegradable                      |
| Isopropanol                                  | 67-63-0     | Readily biodegradable (53% @ 5d)           |
| Surfactant                                   | Proprietary | Readily biodegradable (similar substances) |
| Ethanol                                      | 64-17-5     | No information available                   |
| Ammonium salt                                | Proprietary | (96% @ 28d)                                |

# 12.3. Bioaccumulative potential

| Substances                                   | CAS Number  | Bioaccumulation          |  |
|--|-------------|--------------------------|--|
| Ammonium Salt of Ethoxylated Alcohol Sulfate | Proprietary | Log Pow = 0.7            |  |
| Isopropanol                                  | 67-63-0     | LogPow < 4.5             |  |
| Surfactant                                   | Proprietary | No information available |  |

| Ethanol       | 64-17-5     | -0.32          |
|---------------|-------------|----------------|
| Ammonium salt | Proprietary | Log Kow = 3.42 |

#### 12.4. Mobility in soil

| Substances                                   | CAS Number  | Mobility                 |
|--|-------------|--------------------------|
| Ammonium Salt of Ethoxylated Alcohol Sulfate | Proprietary | No information available |
| Isopropanol                                  | 67-63-0     | No information available |
| Surfactant                                   | Proprietary | No information available |
| Ethanol                                      | 64-17-5     | No information available |
| Ammonium salt                                | Proprietary | No information available |

#### 12.5 Other adverse effects

No information available

### 13. Disposal Considerations

13.1. Waste treatment methods

**Disposal methods**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 UN1993

**UN proper shipping name:** Flammable Liquid, N.O.S. (Contains Isopropanol, Ethanol)

Transport Hazard Class(es): 3
Packing Group: ||||

Environmental Hazards: Not applicable

Not Restricted when shipped in containers less than 119 gallons as authorized by 49 CFR 173.150(e)(1)

and 49 CFR 173.150(f)(2).

Canadian TDG

UN Number UN1993

**UN proper shipping name:** Flammable Liquid, N.O.S. (Contains Isopropanol, Ethanol)

Transport Hazard Class(es): 3
Packing Group:

**Environmental Hazards:** Not applicable

IMDG/IMO

UN Number UN1993

**UN proper shipping name:** Flammable Liquid, N.O.S. (Contains Isopropanol, Ethanol)

Transport Hazard Class(es): 3
Packing Group: |||

Environmental Hazards: Not applicable

IATA/ICAO

UN Number UN1993

**UN proper shipping name:** Flammable Liquid, N.O.S. (Contains Isopropanol, Ethanol)

Transport Hazard Class(es): 3
Packing Group: |||

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.

**TSCA Significant New Use Rules - S5A2** 

| 100/1 Cigimiodile Non Coc Naice Co/12 |             |                          |                           |  |  |
|---------------------------------------|-------------|--------------------------|---------------------------|--|--|
| Substances                            | CAS Number  | TSCA Significant New Use | TSCA Section 5(E) Consent |  |  |
|                                       |             | Rules - S5A2             | Orders                    |  |  |
| Ammonium Salt of Ethoxylated Alcohol  | Proprietary | Not applicable           | Not applicable            |  |  |
| Sulfate                               |             |                          |                           |  |  |
| Isopropanol                           | 67-63-0     | Not applicable           | Not applicable            |  |  |
| Surfactant                            | Proprietary | Not applicable           | Not applicable            |  |  |
| Ethanol                               | 64-17-5     | Not applicable           | Not applicable            |  |  |
| Ammonium salt                         | Proprietary | Not applicable           | Not applicable            |  |  |

**EPA SARA Title III Extremely Hazardous Substances** 

| Substances                                   | CAS Number  | EPA SARA Title III Extremely Hazardous |
|--|-------------|--|
|  |             | Substances                             |
| Ammonium Salt of Ethoxylated Alcohol Sulfate | Proprietary | Not applicable                         |
| Isopropanol                                  | 67-63-0     | Not applicable                         |
| Surfactant                                   | Proprietary | Not applicable                         |
| Ethanol                                      | 64-17-5     | Not applicable                         |
| Ammonium salt                                | Proprietary | Not applicable                         |

### EPA SARA (311,312) Hazard Class

Flammable (gases, aerosols, liquids, or solids) Skin Corrosion or Irritation Serious eye damage or eye irritation

**EPA SARA (313) Chemicals** 

| =1.71.67.11.01.\0.10/0.11.01.00.10   |             |                                 |                                 |  |  |
|--------------------------------------|-------------|---------------------------------|---------------------------------|--|--|
| Substances                           | CAS Number  | Toxic Release Inventory (TRI) - | Toxic Release Inventory (TRI) - |  |  |
|                                      |             | Group I                         | Group II                        |  |  |
| Ammonium Salt of Ethoxylated Alcohol | Proprietary | Not applicable                  | Not applicable                  |  |  |
| Sulfate                              |             |                                 |                                 |  |  |
| Isopropanol                          | 67-63-0     | 1.0%                            | Not applicable                  |  |  |
| Surfactant                           | Proprietary | Not applicable                  | Not applicable                  |  |  |
| Ethanol                              | 64-17-5     | Not applicable                  | Not applicable                  |  |  |
| Ammonium salt                        | Proprietary | Not applicable                  | Not applicable                  |  |  |

EPA CERCLA/Superfund Reportable Spill Quantity

| Substances                                   | CAS Number  | CERCLA RQ      |
|--|-------------|----------------|
| Ammonium Salt of Ethoxylated Alcohol Sulfate | Proprietary | Not applicable |
| Isopropanol                                  | 67-63-0     | Not applicable |
| Surfactant                                   | Proprietary | Not applicable |
| Ethanol                                      | 64-17-5     | Not applicable |
| Ammonium salt                                | Proprietary | Not applicable |

#### **EPA RCRA Hazardous Waste Classification**

If product becomes a waste, it does meet the criteria of a hazardous waste as defined by the US EPA, because of:

Ignitability D001

**California Proposition 65** 

| Substances                                   | CAS Number  | California Proposition 65 |
|--|-------------|---------------------------|
| Ammonium Salt of Ethoxylated Alcohol Sulfate | Proprietary | Not applicable            |
| Isopropanol                                  | 67-63-0     | Not applicable            |
| Surfactant                                   | Proprietary | Not applicable            |
| Ethanol                                      | 64-17-5     | developmental toxicity    |
|  |             | carcinogen carcinogen     |

| lAmmonium salt | IDropriotory | INot applicable |
|----------------|--------------|-----------------|
| Millionium san | IFTODITELATY | Not applicable  |
|                |              |                 |

U.S. State Right-to-Know Regulations

| Substances                   | CAS Number  | MA Right-to-Know Law | NJ Right-to-Know Law | PA Right-to-Know Law |
|------------------------------|-------------|----------------------|----------------------|----------------------|
| Ammonium Salt of Ethoxylated | Proprietary | Not applicable       | Not applicable       | Not applicable       |
| Alcohol Sulfate              |             |                      |                      |                      |
| Isopropanol                  | 67-63-0     | Present              | Present              | Environmental hazard |
| Surfactant                   | Proprietary | Not applicable       | Not applicable       | Not applicable       |
| Ethanol                      | 64-17-5     | Teratogen            | Present              | Present              |
| Ammonium salt                | Proprietary | Not applicable       | Not applicable       | Not applicable       |

### **Canadian Regulations**

**Canadian Domestic Substances** All components listed on inventory or are exempt. **List (DSL)** 

### 16. Other information

Preparation Information

Prepared By Chemical Stewardship

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e-mail: fdunexchem@halliburton.com

Revision Date: 11-Jun-2020

Reason for Revision Initial Release

### **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 used in the safety data sheet

bw – body weight

CAS - Chemical Abstracts Service

d - day

EC50 - Effective Concentration 50%

ErC50 – Effective Concentration growth rate 50%

h - hour

LC50 - Lethal Concentration 50%

LD50 – Lethal Dose 50%

LL50 - Lethal Loading 50%

mg/kg - milligram/kilogram

mg/L - milligram/liter

mg/m3 - milligram/cubic meter

mm - millimeter

mmHg - millimeter mercury

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

w/w - weight/weight

### 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** 

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