# **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: GULF WESTEROSE ACID BLEND

Revision Date: 02-Jan-2013

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: GULF WESTEROSE ACID BLEND

Synonyms:NoneChemical Family:AcidApplication:Acid

Manufacturer/Supplier Halliburton Energy Services

P.O. Box 1431

Duncan, Oklahoma 73536-0431

Emergency Telephone: (281) 575-5000

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

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# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	<b>CAS Number</b>	PERCENT	<b>ACGIH TLV-TWA</b>	<b>OSHA PEL-TWA</b>
Acetic acid	64-19-7	10 - 30%	10 ppm	10 ppm
Hydrochloric acid	7647-01-0	5 - 10%	2 ppm	5 ppm
Isopropanol	67-63-0	10 - 30%	200 ppm	400 ppm

# 3. HAZARDS IDENTIFICATION

Hazard Overview May cause eye and skin burns. May cause respiratory irritation. May cause

headache, dizziness, and other central nervous system effects. May be harmful if swallowed. Repeated overexposure may cause liver and kidney effects. Flammable.

#### 4. FIRST AID MEASURES

**Inhalation** If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably

mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

**Skin** In case of contact, immediately flush skin with plenty of soap and water for at least 15

minutes. Get medical attention. Remove contaminated clothing and launder before

reuse.

Eyes In case of contact, or suspected contact, immediately flush eyes with plenty of water

for at least 15 minutes and get medical attention immediately after flushing.

**Ingestion** 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.

Notes to Physician Not Applicable

#### **FIRE FIGHTING MEASURES**

Flash Point/Range (F): 53 Flash Point/Range (C): 11

Flash Point Method: Not Determined **Autoignition Temperature (F):** Not Determined **Autoignition Temperature (C):** Not Determined Flammability Limits in Air - Lower (%): Not Determined Flammability Limits in Air - Upper (%): Not Determined

Water fog, carbon dioxide, foam, dry chemical. Fire Extinguishing Media

**Special Exposure Hazards** May be ignited by heat, sparks or flames. Use water spray to cool fire exposed

surfaces. Closed containers may explode in fire. Decomposition in fire may produce toxic gases. May form explosive mixtures with strong alkalis. Reaction with steel and certain other metals generates flammable hydrogen gas. Do not allow runoff to enter

waterways.

Fire-Fighters

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for

fire fighting personnel.

Health 3, Flammability 3, Reactivity 0 **NFPA Ratings: HMIS Ratings:** Health 3, Flammability 3, Reactivity 0

#### **ACCIDENTAL RELEASE MEASURES**

Personal Precautionary Measures Use appropriate protective equipment.

**Environmental Precautionary** 

Measures

Prevent from entering sewers, waterways, or low areas.

**Procedure for Cleaning /** 

**Absorption** 

Isolate spill and stop leak where safe. Remove ignition sources and work with nonsparking tools. Contain spill with sand or other inert materials. Neutralize to pH of

6-8. Scoop up and remove.

#### HANDLING AND STORAGE

Avoid contact with eyes, skin, or clothing, Avoid breathing vapors. Wash hands after **Handling Precautions** 

use. Launder contaminated clothing before reuse. Ground and bond containers

when transferring from one container to another.

Store away from alkalis. Store away from oxidizers. Store in a cool well ventilated **Storage Information** 

area. Keep from heat, sparks, and open flames. Keep container closed when not in

use.

## **EXPOSURE CONTROLS/PERSONAL PROTECTION**

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

without good cross ventilation.

**Respiratory Protection** Organic vapor/acid gas respirator with a dust/mist filter.

Impervious rubber gloves. **Hand Protection** 

Skin Protection Rubber apron. Rubber boots.

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

**Other Precautions** Eyewash fountains and safety showers must be easily accessible.

#### PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

Color: Clear colorless Odor: Pungent acrid

8.0 1.03 Specific Gravity @ 20 C (Water=1): Density @ 20 C (lbs./gallon): 8.58

Bulk Density @ 20 C (lbs/ft3): Not Determined **Boiling Point/Range (F):** Not Determined **Boiling Point/Range (C):** Not Determined Freezing Point/Range (F): Not Determined Freezing Point/Range (C): Not Determined Vapor Pressure @ 20 C (mmHg): Not Determined Vapor Density (Air=1): Not Determined **Percent Volatiles:** Not Determined **Evaporation Rate (Butyl Acetate=1):** Not Determined

Solubility in Water (g/100ml): Miscible

Solubility in Solvents (g/100ml): Not Determined VOCs (lbs./gallon): Not Determined Viscosity, Dynamic @ 20 C (centipoise): Not Determined Viscosity, Kinematic @ 20 C (centistokes): Not Determined Partition Coefficient/n-Octanol/Water: Not Determined Molecular Weight (g/mole): Not Determined

#### STABILITY AND REACTIVITY

**Stability Data:** Stable

**Hazardous Polymerization:** Will Not Occur

**Conditions to Avoid** Keep away from heat, sparks and flame.

Incompatibility (Materials to

Avoid)

Strong oxidizers. Strong alkalis.

**Hazardous Decomposition** 

**Products** 

Flammable hydrogen gas. Chlorine. Hydrogen sulfide. Carbon monoxide and carbon

dioxide.

**Additional Guidelines** Not Applicable

#### **TOXICOLOGICAL INFORMATION**

**Principle Route of Exposure** Eye or skin contact, inhalation.

Causes severe respiratory irritation. May cause central nervous system depression Inhalation

including headache, dizziness, drowsiness, incoordination, slowed reaction time,

slurred speech, giddiness and unconsciousness.

**Skin Contact** Causes severe burns.

Eye Contact Causes severe eye irritation May cause eye burns.

Causes burns of the mouth, throat and stomach. May cause central nervous system Ingestion

> depression including headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue blurred vision, slurred speech,

giddiness, tremors and convulsions.

**Aggravated Medical Conditions** Skin disorders. Eye ailments. **Chronic Effects/Carcinogenicity** Repeated overexposure may cause liver and kidney effects.

Other Information None known.

**Toxicity Tests** 

Oral Toxicity: Not determined

**Dermal Toxicity:** Not determined

Inhalation Toxicity: Not determined

Primary Irritation Effect: Not determined

Carcinogenicity Not determined

Genotoxicity: Not determined

Reproductive /

Not determined

**Developmental Toxicity:** 

# 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Not determined

Bio-accumulation Not determined

## **Ecotoxicological Information**

Acute Fish Toxicity: Not determined Acute Crustaceans Toxicity: Not determined Acute Algae Toxicity: Not determined

Chemical Fate InformationNot determinedOther InformationNot applicable

## 13. DISPOSAL CONSIDERATIONS

**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

# **Land Transportation**

#### DOT

UN2924, Flammable Liquid, Corrosive, N.O.S. (Contains Isopropanol, Hydrochloric Acid), 3, (8), II, (11.7 C) NAERG 132

#### **Canadian TDG**

Flammable Liquid, Corrosive, N.O.S.(Contains Isopropanol, Hydrochloric Acid), 3, (8), UN2924, II, (11.7 C)

#### **ADR**

UN2924, Flammable Liquid, Corrosive, N.O.S. (Contains Isopropanol, Hydrochloric Acid), 3, (8), II

## **Air Transportation**

#### ICAO/IATA

UN2924, Flammable Liquid, Corrosive, N.O.S., 3, (8), II (Contains Isopropanol, Hydrochloric Acid)

# **Sea Transportation**

**IMDG** 

UN2924, Flammable Liquid, Corrosive, N.O.S. (Contains Isopropanol, Hydrochloric Acid), 3, (8), II, (11.7 C) EmS F-E, S-C

# **Other Transportation Information**

Labels: Flammable Liquid

Corrosive

#### 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 Chronic Health Hazard

Fire Hazard

EPA SARA (313) Chemicals This product contains toxic chemical(s) listed below which is(are) subject to the

reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372:

Isopropanol//67-63-0

EPA CERCLA/Superfund Reportable Spill Quantity

EPA Reportable Spill Quantity is 5827 Gallons based on Acetic acid (CAS: 64-19-7).

**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 Corrosivity D002

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

MA Right-to-Know Law
One or more components listed.

NJ Right-to-Know Law
One or more components listed.

PA Right-to-Know Law
One or more components listed.

**Canadian Regulations** 

GULF WESTEROSE ACID BLEND Page 5 of 6 **Canadian DSL Inventory** 

Product contains one or more components not listed on the inventory.

**WHMIS Hazard Class** 

E Corrosive Material B2 Flammable Liquids D2B Toxic Materials

# 16. OTHER INFORMATION

# The following sections have been revised since the last issue of this MSDS

Not applicable

**Additional Information** 

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

representative.

For questions about the Material Safety Data Sheet for this or other Halliburton

products, contact Chemical Compliance at 1-580-251-4335.

**Disclaimer Statement** 

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\*\*\*END OF MSDS\*\*\*