# **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: FINES CONTROL ACID

Revision Date: 04-Jan-2011

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: FINES CONTROL ACID

Synonyms: None
Chemical Family: Blend
Application: Acid System

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	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Ammonium bifluoride	1341-49-7	0 - 1%	2.5 mg/m <sup>3</sup>	2.5 mg/m <sup>3</sup>
Acetic anhydride	108-24-7	1 - 5%	5 ppm	5 ppm
Acetic acid	64-19-7	1 - 5%	10 ppm	10 ppm
Hydrochloric acid	7647-01-0	10 - 30%	2 ppm	5 ppm
Hydrofluoric acid	7664-39-3	1 - 5%	0.5 ppm	3 ppm

### 3. HAZARDS IDENTIFICATION

Hazard Overview May cause eye, skin, and respiratory burns. May be harmful if swallowed.

### 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): Not Determined Flash Point/Range (C): Not Determined **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

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

**Special Exposure Hazards** May form explosive mixtures with strong alkalis. Decomposition in fire may produce

toxic gases. 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.

**NFPA Ratings:** Health 3, Flammability 0, Reactivity 1 Health 3, Flammability 0, Reactivity 1 **HMIS Ratings:** 

# 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. Contain spill with sand or other inert materials.

Neutralize with lime slurry, limestone, or soda ash. Scoop up and remove.

### HANDLING AND STORAGE

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

use. Launder contaminated clothing before reuse.

**Storage Information** Store away from alkalis. Store in a cool well ventilated area. Keep container closed

when not in use.

### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

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

without good cross ventilation.

**Respiratory Protection** Acid gas respirator.

**Hand Protection** Impervious rubber gloves.

Rubber boots. Full protective chemical resistant clothing. **Skin Protection** 

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

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

# PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Color:Clear colorlessOdor:Pungent acrid

pH: 0.8

Specific Gravity @ 20 C (Water=1): Not Determined Density @ 20 C (lbs./gallon): Not Determined 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 (centistrokes):

Not Determined Partition Coefficient/n-Octanol/Water:

Not Determined Not Determined Not Determined Not Determined Not Determined

## 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid None anticipated

Incompatibility (Materials to

Avoid)

Strong alkalis.

**Hazardous Decomposition** 

**Products** 

Flammable hydrogen gas. Chlorine. Fluorides. Carbon monoxide and carbon dioxide.

Additional Guidelines Not Applicable

# 11. TOXICOLOGICAL INFORMATION

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

**Inhalation** Causes severe respiratory burns.

Skin Contact Causes skin burns which may not be immediately painful or visible. Effects on skin

may be delayed for 24-48 hours.

**Eye Contact** May cause eye burns.

**Ingestion** Causes burns of the mouth, throat and stomach.

**Aggravated Medical Conditions** Skin disorders.

**Chronic Effects/Carcinogenicity** Prolonged, excessive exposure may cause erosion of the teeth. Prolonged or

repeated exposure may result in fluorosis. Symptoms include nausea, vomiting, loss of appetite, diarrhea, and/or constipation. Fluorosis also results in bone density

increase.

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 Information Not determined

Other Information Not 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

UN3264, Corrosive Liquid, Acidic, Inorganic, N.O.S. (Contains Hydrochloric Acid, Hydrofluoric Acid), 8, II RQ (Hydrofluoric Acid - 3027 kg.)
NAERG 154

#### **Canadian TDG**

Corrosive Liquid, Acidic, Inorganic, N.O.S.(Contains Hydrochloric Acid, Hydrofluoric Acid), 8, UN3264, II

#### **ADR**

UN3264, Corrosive Liquid, Acidic, Inorganic, N.O.S. (Contains Hydrochloric Acid, Hydrofluoric Acid), 8, II

# **Air Transportation**

#### ICAO/IATA

UN3264, Corrosive Liquid, Acidic, Inorganic, N.O.S., 8, II (Contains Hydrochloric Acid, Hydrofluoric Acid Solution) RQ (Hydrofluoric Acid - 3027 kg.)

# Sea Transportation

#### **IMDG**

UN3264, Corrosive Liquid, Acidic, Inorganic, N.O.S. (Contains Hydrochloric Acid, Hydrofluoric Acid), 8, II RQ (Hydrofluoric Acid - 3027 kg.) EmS F-A, S-B

# Other Shipping Information

Labels: Corrosive

### 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 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: Hydrogen Fluoride//7664-39-3

**EPA CERCLA/Superfund** 

Reportable Spill Quantity

Classification

**EPA RCRA Hazardous Waste** 

EPA Reportable Spill Quantity is 367 Gallons based on Hydrofluoric acid (CAS: 7664-39-3).

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

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

**Canadian DSL Inventory** 

All components listed on inventory.

**WHMIS Hazard Class** 

E Corrosive Material D1B 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** 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 MSDS\*\*\*