### **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: ACETIC ACID GLACIAL (99.5%)

Revision Date: 02-Jan-2013

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** ACETIC ACID GLACIAL (99.5%)

Synonyms: None

Chemical Family: Organic acid

**Application:** 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

e-mail: fdunexchem@halliburton.com

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Acetic acid	64-19-7	60 - 100%	10 ppm	10 ppm

### 3. HAZARDS IDENTIFICATION

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

Combustible.

# 4. FIRST AID MEASURES

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

develops or if breathing becomes difficult.

**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

### 5. FIRE FIGHTING MEASURES

Flash Point/Range (F): 109
Flash Point/Range (C): 42

Flash Point Method:

Autoignition Temperature (F):

Autoignition Temperature (C):

Not Determined

Not Determined

Flammability Limits in Air - Lower (%): 5.4
Flammability Limits in Air - Upper (%): 16

Fire Extinguishing Media Water spray, dry chemical, or foam.

Special Exposure Hazards Use water spray to cool fire exposed surfaces. Decomposition in fire may produce

toxic gases. Do not allow runoff to enter waterways.

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

fire fighting personnel.

Fire-Fighters

NFPA Ratings: Health 2, Flammability 2, Reactivity 0 HMIS Ratings: Health 2, Flammability 2, Reactivity 0

# 6. 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. Neutralize with lime slurry, limestone, or soda

ash. Contain spill with sand or other inert materials. Scoop up and remove.

# 7. 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 away from oxidizers. Store in a cool well ventilated

area. Keep container closed when not in use.

# 8. 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.

**Hand Protection** Impervious rubber gloves.

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

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

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

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:LiquidColor:ClearOdor:Acrid

# 9. PHYSICAL AND CHEMICAL PROPERTIES

pH: 2.9
Specific Gravity @ 20 C (Water=1): 1.05
Density @ 20 C (lbs./gallon): 8.75

Bulk Density @ 20 C (lbs/ft3): Not Determined

Boiling Point/Range (F): 244
Boiling Point/Range (C): 117
Freezing Point/Range (F): 62
Freezing Point/Range (C): 16
Vapor Pressure @ 20 C (mmHg): 11.7

Vapor Density (Air=1): Not Determined

Percent Volatiles: 100

Evaporation Rate (Butyl Acetate=1): Not Determined

Solubility in Water (g/100ml): Soluble

Solubility in Solvents (g/100ml):

VOCs (lbs./gallon):

Viscosity, Dynamic @ 20 C (centipoise):

Viscosity, Kinematic @ 20 C (centistokes):

Partition Coefficient/n-Octanol/Water:

Not Determined

Not Determined

Molecular Weight (g/mole): 60.6

### 10. 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 alkalis.

**Hazardous Decomposition** 

**Products** 

Toxic fumes. 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 irritation.

Skin Contact

Causes severe burns.

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.

Other Information None known.

**Toxicity Tests** 

Oral Toxicity: LD50: 3310 mg/kg (Rat)

Dermal Toxicity: Not determined Inhalation Toxicity: Not determined

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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 Readily biodegradable

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

UN2789, Acetic Acid, Glacial, 8, (3), II, (42.8 C) RQ (Acetic Acid - 2273 kg.)

### **Canadian TDG**

Acetic Acid, Glacial, 8, (3), UN2789, II, (42.8 C)

# **ADR**

UN2789, Acetic Acid, Glacial, 8, (3), II

### Air Transportation

#### ICAO/IATA

UN2789, Acetic Acid, Glacial, 8, (3), II RQ (Acetic Acid - 2273 kg.)

# Sea Transportation

#### **IMDG**

UN2789,Acetic Acid, Glacial, 8, (3), II, (42.8 C) RQ (Acetic Acid - 2273 kg.) EmS F-E, S-C

# **Other Transportation Information**

Labels: 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

Fire 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

EPA Reportable Spill Quantity is 571 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:

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 or are exempt.

WHMIS Hazard Class B3 Combustible Liquids

E Corrosive Material

### 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\*\*\*