# **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: FERCHEK FERRIC IRON INHIBITOR

Revision Date: 23-Sep-2013 Revision Number: 16

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Trade Name: FERCHEK FERRIC IRON INHIBITOR

Synonyms: None

Chemical Family: Not applicable Internal ID Code HM000692

**Product Use** 

Application: Iron Reducing Agent

**Manufacturer's Name and Contact Details** 

Name and Address Halliburton Energy Services

645 - 7th Ave SW Suite 2200

Calgary, AB T2P 4G8 Canada

**Emergency Telephone Number** (281) 575-5000

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

# 2. HAZARD(S) IDENTIFICATION

**WHIMIS Classification** 

WHMIS Hazard Class Un-Controlled

WHMIS Symbol(s)

Summary of hazards of the product

Hazard Overview May cause mild eye, skin, and respiratory irritation. Airborne dust may be

explosive.

3. COMPOSITION/INFORMATION ON INGREDIENTS				
Substances	CAS Number	PERCENT (w/w)	HMIRA Registry Number	Filing Date
Isoascorbic acid, sodium salt	6381-77-7	60 - 100%	Not applicable	Not applicable

4. FIRST AID MEASURES
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FERCHEK FERRIC IRON INHIBITOR

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.

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

**Ingestion** Under normal conditions, first aid procedures are not required.

# Most important symptoms and effects, both acute and delayed

May cause mild eye, skin, and respiratory irritation.

### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

### 5. FIRE FIGHTING MEASURES

**Extinguishing media** 

Suitable Extinguishing Media

All standard fire fighting media

Extinguishing media which must not be used for safety reasons

None known.

# Special hazards arising from the substance or mixture

**Special Exposure Hazards** 

Decomposition in fire may produce toxic gases.

Advice for firefighters

**Special Protective Equipment for Fire-Fighters** 

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

#### **Hazardous combustion products**

Carbon monoxide and carbon dioxide.

### 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions and emergency producedures

**Protective Equipment** 

Use appropriate protective equipment. Avoid creating and breathing dust.

### **Environmental Precautionary Measures**

None known.

#### **Procedure for Cleaning / Absorption**

Scoop up and remove.

### 7. HANDLING AND STORAGE

# Precautions for safe handling

Avoid creating or inhaling dust.

# Conditions for safe storage and Incompatible materials for storage

Store away from oxidizers. Store in a cool, dry location.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Occupational Exposure Limits**

**Exposure Limits** 

Substances	CAS Number	ACGIH TLV-TWA	OSHA PEL-TWA
Isoascorbic acid, sodium salt	6381-77-7	Not applicable	Not applicable

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Appropriate engineering controls

Use in a well ventilated area. **Engineering Controls** 

**Personal Protective Equipment (PPE)** 

**Respiratory Protection** Dust/mist respirator. (N95, P2/P3)

Normal work gloves. **Hand Protection** Normal work coveralls. **Skin Protection** 

**Eye Protection** Wear safety glasses or goggles to protect against exposure.

Other Precautions None known.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

**Physical State:** Solid Color: White

Odor: Odorless Odor Threshold: No information available

Property Values

Remarks/ - Method

pH: 5.5-8

pH Concentration of Solution: No information available. Freezing Point/Range No information available. **Melting Point/Range** No information available **Boiling Point/Range (C):** No information available. Flash Point/Range (C): No information available.

Flash Point Method: Not Determined

**Autoignition Temperature (C):** 640

Flammability Limits in Air - Lower (%): No information available. Flammability Limits in Air - Upper (%): No information available. **Evaporation Rate (Butyl Acetate=1):** No information available. Vapor Pressure @ 20 C (mmHg): No information available. Vapor Density (Air=1): No information available.

Specific Gravity @ 20 C (Water=1): 1.65 Solubility in Water (q/100ml): Soluble

Solubility in other solvents No information available. Partition Coefficient/n-Octanol/Water: No information available. No information available. **Decomposition Temperature (C):** No information available **Viscosity Explosive Properties** No information available **Oxidizing Properties** No information available

Other Information

No information available. Molecular Weight (g/mole): **VOC Content (%)** No information available

### 10. STABILITY AND REACTIVITY

Conditions of Reactivity

**Conditions to Avoid** None anticipated **Hazardous Polymerization:** Will Not Occur

**Chemical Stability** 

Stable

Sensitivity to Static Discharge

Not available

**Sensitivity to Mechanical Impact** 

Not available

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#### Incompatible materials

Strong oxidizers.

### **Hazardous Decomposition Products**

Carbon monoxide and carbon dioxide.

### 11. TOXICOLOGICAL INFORMATION

Routes of entry

Eye or skin contact, inhalation.

Information on Toxicological Effects

Acute effects from exposure

Inhalation May cause mild respiratory irritation. **Eye Contact** May cause mild eye irritation.

None known. **Skin Contact** None known Ingestion

Chronic effects from exposure

**Chronic Effects/Carcinogenicity** No data available to indicate product or components present at greater than 1% are chronic

health hazards.

Irritancy of product

No skin irritation Irritation

No eye irritation

Sensitization of product

Sensitization Not confirmed to cause skin or respiratory sensitization.

Mutagenicity

**Mutagenic Effects** Contains no ingredient listed as a mutagen

Carcinogenicity

Carcinogenic Effects No ingredient of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA.

Reproductive Toxicity

**Reproductive Toxicity** This product does not contain any known or suspected reproductive hazards

Teratogenicity/embryotoxicity

Teratogenic Not a confirmed teratogen or embryotoxin.

Toxicologically synergistic material Not available

# **Acute Toxicity**

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isoascorbic acid, sodium	6381-77-7	5 g/kg (Rat)	No data available	No data available
salt				

# 12. ECOLOGICAL INFORMATION

**Toxicity** 

**Ecotoxicity Effects** 

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to	Daphnia Magna
				Microorganisms	(Water Flea)

#### FERCHEK FERRIC IRON INHIBITOR

Isoascorbic acid, sodium	6381-77-7	EC50: 1661.34 mg/L	No information	No information	LC50: 738.5 mg/L
salt		(Skeletonema	available	available	(Acartia tonsa)
		costatum)			

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#### Persistence and Degradability

Readily biodegradable

#### Bioaccumlation potential

Does not bioaccumulate

Substances	Log Pow
Isoascorbic acid, sodium salt	-5.2

#### Mobility in soil

No information available

### Results of PBT and vPvB assessment

No information available.

#### Other adverse effects

#### **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

# 13. DISPOSAL CONSIDERATIONS

**Disposal Method**Bury in a licensed landfill according to federal, state, and local regulations.

**Contaminated Packaging** Follow all applicable national or local regulations.

## 14. TRANSPORT INFORMATION

**Canadian TDG** 

UN Number: Not restricted.
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable

IATA/ICAO

UN Number: Not restricted.
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable

IMDG/IMO

UN Number: Not restricted.
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable

Special Precautions for User None

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

# 15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canadian Regulations

Canadian DSL Inventory All components listed on inventory or are exempt.

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**WHMIS Hazard Class** 

**Un-Controlled** 

WHMIS Symbol(s)

**US Regulations US TSCA Inventory** 

All components listed on inventory or are exempt.

# 16. OTHER INFORMATION

**Preparation Information** 

**Prepared By** Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

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Not applicable

**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 Compliance at 1-580-251-4335.

Key or legend to abbreviations and acronyms

WHMIS: Workplace Hazardous Materials Information System

Key literature references and sources for data

www.ChemADVISOR.com/

#### **Disclaimer Statement**

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