

# HALLIBURTON

## MATERIAL SAFETY DATA SHEET

Product Trade Name: FE-7L

Revision Date: 23-Sep-2013

Revision Number: 8

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

Product Trade Name: FE-7L  
Synonyms: None  
Chemical Family: Blend  
Internal ID Code: HM004647

**Product Use**

Application: Iron Control 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  
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### 2. HAZARD(S) IDENTIFICATION

**WHMIS Classification**

WHMIS Hazard Class: D2A Very Toxic Materials

**WHMIS Symbol(s)**



**Summary of hazards of the product**

**Hazard Overview** May cause eye, skin, and respiratory irritation. May be harmful if swallowed. May damage bones.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT (w/w)	HMIRA Registry Number	Filing Date
Potassium iodide	7681-11-0	30 - 60%	Not applicable	Not applicable

#### 4. FIRST AID MEASURES

##### Description of first aid measures

<b>Inhalation</b>	If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
<b>Eyes</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.
<b>Skin</b>	Wash with soap and water. Get medical attention if irritation persists. Remove contaminated clothing and launder before reuse.
<b>Ingestion</b>	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.

##### Most important symptoms and effects, both acute and delayed

May cause 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**

Water fog, carbon dioxide, foam, dry chemical.

##### **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

Metal oxides. Iodine.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions and emergency procedures

##### **Protective Equipment**

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. Scoop up and remove.

#### 7. HANDLING AND STORAGE

##### Precautions for safe handling

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse.

##### Conditions for safe storage and Incompatible materials for storage

Store in a cool, dry location. Keep container closed when not in use.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits****Exposure Limits**

Substances	CAS Number	ACGIH TLV-TWA	OSHA PEL-TWA
Potassium iodide	7681-11-0	0.01 ppm	Not applicable

**Appropriate engineering controls****Engineering Controls**

Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

**Personal Protective Equipment (PPE)****Respiratory Protection**

Dust/mist respirator. (N95, P2/P3)

**Hand Protection**

Impervious rubber gloves.

**Skin Protection**

Rubber apron.

**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

**Information on basic physical and chemical properties**

**Physical State:** Liquid

**Odor:** Odorless

**Color:** Clear colorless to pale yellow

**Odor Threshold:** No information available

Property

Remarks/ - Method

Values

**pH:**

7-9

**pH Concentration of Solution:**

No information available.

**Freezing Point/Range**

No information available.

**Melting Point/Range**

No information available

**Boiling Point/Range (C):**

112 °C

**Flash Point/Range (C):**

No information available.

**Flash Point Method:**

No information available.

**Autoignition Temperature (C):**

No information available.

**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):**

1.45

**Solubility in Water (g/100ml):**

Soluble

**Solubility in other solvents**

No information available.

**Partition Coefficient/n-Octanol/Water:**

No information available.

**Decomposition Temperature (C):**

No information available.

**Viscosity**

No information available

**Explosive Properties**

No information available

**Oxidizing Properties**

No information available

Other Information

**Molecular Weight (g/mole):**

No information available.

**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

**Incompatible materials**

Bromine trifluoride. Chlorine trifluoride. Strong acids.

**Hazardous Decomposition Products**

Metal oxides. Iodine.

<b>11. TOXICOLOGICAL INFORMATION</b>
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**Routes of entry**

Eye or skin contact, inhalation.

**Information on Toxicological Effects****Acute effects from exposure****Inhalation**

May cause respiratory irritation.

**Eye Contact**

May cause eye irritation.

**Skin Contact**

May cause skin irritation.

**Ingestion**

Irritation of the mouth, throat, and stomach. May cause abdominal pain, vomiting, nausea, and diarrhea.

**Chronic effects from exposure****Chronic Effects/Carcinogenicity**

Prolonged or repeated exposure may lead to iodism. Symptoms include skin rash, running nose, headache and irritation of mucous membranes. Weakness, anemia, loss of weight and general depression may also occur.

**Irritancy of product****Irritation**

Irritating to eyes and skin

**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
Potassium iodide	7681-11-0	No data available	No data available	No data available

<b>12. ECOLOGICAL INFORMATION</b>
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**Toxicity**  
**Ecotoxicity Effects**

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Potassium iodide	7681-11-0	No information available	No information available	No information available	LC50: 0.83 mg/L (Daphnia magna)

**Persistence and Degradability**

No information available

**Bioaccumulation potential**

No information available

**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** Disposal should be made in accordance with 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.

**WHMIS Hazard Class**

D2A Very Toxic Materials

**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**Revision Date:**

23-Sep-2013

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/](http://www.ChemADVISOR.com/)**Disclaimer Statement**

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