

## MATERIAL SAFETY DATA SHEET

Product Trade Name: SCA-130 INHIBITOR

Revision Date: 23-Sep-2013

Revision Number: 17

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

Product Trade Name: SCA-130 INHIBITOR  
Synonyms: None  
Chemical Family: Blend  
Internal ID Code: HM001243

**Product Use**

Application: Inhibitor

**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

**WHMIS Classification**

WHMIS Hazard Class: B2 Flammable Liquids  
D1A Very Toxic Materials  
D2A Very Toxic Materials  
E Corrosive Material

**WHMIS Symbol(s)**



**Summary of hazards of the product**

**Hazard Overview** May cause eye, skin, and respiratory irritation. May cause headache, dizziness, and other central nervous system effects. May be harmful if swallowed. Potential carcinogen. Flammable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Substances | CAS Number | PERCENT (w/w) | HMIRA Registry Number | Filing Date |
|------------|------------|---------------|-----------------------|-------------|
|------------|------------|---------------|-----------------------|-------------|

|                |          |          |                |                |
|----------------|----------|----------|----------------|----------------|
| Aldol          | 107-89-1 | 30 - 60% | Not applicable | Not applicable |
| Crotonaldehyde | 123-73-9 | 1 - 5%   | Not applicable | Not applicable |
| Acetaldehyde   | 75-07-0  | 1 - 5%   | Not applicable | Not applicable |

#### 4. FIRST AID MEASURES

##### Description of 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.

##### 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.

##### 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.

##### 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.

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

May cause eye and skin irritation. May be harmful if swallowed. Potential carcinogen.

##### 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

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.

##### 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

Oxides of nitrogen. Carbon monoxide and carbon dioxide.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions and emergency procedures

##### Protective Equipment

Use appropriate protective equipment. Wear self-contained breathing apparatus in enclosed areas.

##### 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 non-sparking tools. 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. Ground and bond containers when transferring from one container to another.

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

Store away from oxidizers. Keep from heat, sparks, and open flames. Keep container closed when not in use. Product has a shelf life of 36 months.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Limits

#### Exposure Limits

| Substances     | CAS Number | ACGIH TLV-TWA  | OSHA PEL-TWA   |
|----------------|------------|----------------|----------------|
| Aldol          | 107-89-1   | Not applicable | Not applicable |
| Crotonaldehyde | 123-73-9   | Not applicable | 2 ppm          |
| Acetaldehyde   | 75-07-0    | 25 ppm         | 200 ppm        |

### 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

Organic vapor respirator.

#### 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

**Color:** Clear colorless to pale yellow

**Odor:** Pungent

**Odor Threshold:** No information available

#### Property

#### Values

#### Remarks/ - Method

#### pH:

5-7

#### pH Concentration of Solution:

No information available.

#### Freezing Point/Range

-30 °C

#### Melting Point/Range

No information available

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

100 °C

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

18 °C

#### Flash Point Method:

TCC

#### 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):

0.1

#### Vapor Density (Air=1):

3.04

#### Specific Gravity @ 20 C (Water=1):

1.053

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

Miscible

#### 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):**  
**VOC Content (%)**

No information available.  
No information available

## 10. STABILITY AND REACTIVITY

### Conditions of Reactivity

#### **Conditions to Avoid**

#### **Hazardous Polymerization:**

Keep away from heat, sparks and flame.  
Will Not Occur

### Chemical Stability

Stable

### Sensitivity to Static Discharge

Not available

### Sensitivity to Mechanical Impact

Not available

### Incompatible materials

Strong oxidizers. Strong alkalis. Strong acids.

### Hazardous Decomposition Products

Oxides of nitrogen. 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**

Causes severe respiratory irritation. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

##### **Eye Contact**

May cause severe eye irritation. May cause corneal injury.

##### **Skin Contact**

May be absorbed through the skin and contribute to the symptoms listed under ingestion. May cause skin defatting with prolonged exposure. 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**

This product contains a potential carcinogen.

### Irritancy of product

#### **Irritation**

Irritating to skin  
Corrosive to eyes

### Sensitization of product

#### **Sensitization**

Not confirmed to cause skin or respiratory sensitization.

### Mutagenicity

#### **Mutagenic Effects**

Contains a known or suspected mutagen

### Carcinogenicity

#### **Carcinogenic Effects**

Contains a known or suspected carcinogen

### 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   |
|----------------|------------|--------------------|---|---|
| Aldol          | 107-89-1   | 2180 mg/kg ( Rat ) | 140 mg/kg ( Rabbit )                      | No data available   |
| Crotonaldehyde | 123-73-9   | 206 mg/kg ( Rat )  | 380 mg/kg ( Rabbit ) 380 µL/kg ( Rabbit ) | 85 ppm (Rat) 4 h<br>0.2 mg/L (Rat) 4 h<br>300 mg/m <sup>3</sup> (Rat) 4 h |
| Acetaldehyde   | 75-07-0    | 1930 mg/kg (Rat)   | No data available                         | 13300 ppm (Rat) 4 h   |

## 12. ECOLOGICAL INFORMATION

**Toxicity****Ecotoxicity Effects**

| Substances     | CAS Number | Toxicity to Algae        | Toxicity to Fish         | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|----------------|------------|--------------------------|--------------------------|----------------------------|----------------------------|
| Aldol          | 107-89-1   | No information available | No information available | No information available   | No information available   |
| Crotonaldehyde | 123-73-9   | No information available | No information available | No information available   | No information available   |
| Acetaldehyde   | 75-07-0    | No information available | No information available | No information available   | No information available   |

**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:**

UN1992,

**UN Proper Shipping Name:**

Flammable Liquid, Toxic, N.O.S.

**Transport Hazard Class(es):**

, 3

**Subsidiary Hazard:**

, (6.1)

**Packing Group:** , II  
**EMS:** EmS F-E, S-D

**IATA/ICAO**

**UN Number:** UN1992,  
**UN Proper Shipping Name:** Flammable Liquid, Toxic, N.O.S.  
**Transport Hazard Class(es):** , 3  
**Subsidiary Hazard:** , (6.1)  
**Packing Group:** , II

**IMDG/IMO**

**UN Number:** UN1992,  
**UN Proper Shipping Name:** Flammable Liquid, Toxic, N.O.S.  
**Transport Hazard Class(es):** , 3  
**Subsidiary Hazard:** , (6.1)  
**Packing Group:** , II  
**EMS:** EmS F-E, S-D

**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**

B2 Flammable Liquids  
 D1A Very Toxic Materials  
 D2A Very Toxic Materials  
 E Corrosive Material

**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\*\*\***