

# MATERIAL SAFETY DATA SHEET

**Product Trade Name:** BASO 4 LVENT**Revision Date:** 23-Apr-2013**Revision Number:** 10

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

**Product Trade Name:** BASO 4 LVENT  
**Synonyms:** None  
**Chemical Family:** Blend  
**Internal ID Code** HM000107

**Product Use**

**Application:** Scale Remover

**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** E Corrosive Material  
D1B Toxic Materials  
D2A Very Toxic Materials

**WHMIS Symbol(s)****Summary of hazards of the product**

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

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substances	CAS Number	PERCENT (w/w)	HMIRC Registry Number	Filing Date
Oxalic acid salt	Proprietary	5 - 10%		
Potassium hydroxide	1310-58-3	0.1 - 1%		

**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 laundry 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, skin, and respiratory burns. May be harmful if swallowed.

**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 of mixture****Special Exposure Hazards**

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. Contain spill with sand or other inert materials. Neutralize to pH of 6-8. 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 away from oxidizers. Store away from acids. Store in a cool well ventilated area. Keep from heat, sparks, and open flames. Keep container closed when not in use. Product has a shelf life of 24 months.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits**

Substances	CAS Number	ACGIH TLV-TWA	OSHA PEL-TWA
Oxalic acid salt	Proprietary	Not applicable	Not applicable
Potassium hydroxide	1310-58-3	2 mg/m <sup>3</sup>	Not applicable

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

Use in a well ventilated area.

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

Organic vapor respirator with a dust/mist filter. (A2P2/P3)

**Hand Protection**

Impervious rubber gloves. Nitrile gloves. Neoprene 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:**  
**pH Concentration of Solution:**  
**Melting Point/Range**  
**Freezing Point/Range (C):**  
**Boiling Point/Range (C):**  
**Flash Point/Range (C):**  
**Flash Point Method:**  
**Autoignition Temperature (C):**  
**Flammability Limits in Air - Lower (%):**  
**Flammability Limits in Air - Upper (%):**  
**Evaporation Rate (Butyl Acetate=1):**  
**Vapor Pressure @ 20 C (mmHg):**  
**Vapor Density (Air=1):**  
**Specific Gravity @ 20 C (Water=1):**  
**Solubility in Water (g/100ml):**

12-13 (5%)  
 No information available.  
 No information available  
 -4  
 No information available.  
 94  
 TCC  
 No information available.  
 No information available.  
 No information available.  
 No information available.  
 17.8  
 > 1  
 1.197  
 Soluble

**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**

Keep away from heat, sparks and flame.

**Hazardous Polymerization:**

Will Not Occur

**Chemical Stability**

Stable

**Sensitivity to Static Discharge**

Not available

**Sensitivity to Mechanical Impact**

Not available

**Incompatible Materials**

Strong oxidizers. 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 burns.
Eye Contact	May cause eye burns.
Skin Contact	Causes severe burns.
Ingestion	Causes burns of the mouth, throat and stomach. May be harmful if swallowed.

**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****Irritation**Corrosive to eyes  
Corrosive to skin**Sensitization of product****Sensitization**

Not confirmed to cause skin or respiratory sensitization.

## 11. TOXICOLOGICAL INFORMATION

### Mutagenicity

#### **Mutagenic Effects**

Not regarded as mutagenic

### 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	LD50 Oral	LD50 Dermal	LC50 Inhalation
Oxalic acid salt	7500 mg/kg (Rat) >1000 mg/kg (Ruminants)	No data available	No data available
Potassium hydroxide	214 mg/kg ( Rat )	No data available	No data available

## 12. ECOLOGICAL INFORMATION

### Toxicity

#### **Ecotoxicity Effects**

Substances	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Oxalic acid salt	No information available	No information available	No information available	No information available
Potassium hydroxide	No information available	LC50: 80 mg/L (Gambusia affinis)	No information available	TLM96: 251,200 ppm (Mysidopsis bahia)

### Persistence and degradability

No information available

### Bioaccumulative 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:** UN3266,  
**UN Proper Shipping Name:** Corrosive Liquid, Basic, Inorganic, N.O.S.  
**Transport Hazard Class(es):** , 8  
**Packing Group:** , III  
**EMS:** EmS F-A, S-B

**IATA/ICAO**

**UN Number:** UN3266,  
**UN Proper Shipping Name:** Corrosive Liquid, Basic, Inorganic, N.O.S.  
**Transport Hazard Class(es):** , 8  
**Packing Group:** , III

**IMDG/IMO**

**UN Number:** UN3266,  
**UN Proper Shipping Name:** Corrosive Liquid, Basic, Inorganic, N.O.S.  
**Transport Hazard Class(es):** , 8  
**Packing Group:** , III  
**EMS:** EmS F-A, S-B

**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  
WHMIS Hazard Class**

All components listed on inventory or are exempt.  
E Corrosive Material  
D1B Toxic Materials  
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**

**16. OTHER INFORMATION****Prepared By**

Chemical Compliance  
Telephone: 1-580-251-4335  
e-mail: fdunexchem@halliburton.com

**Revision Date:**

23-Apr-2013

**The following sections have been revised since the last issue of this SDS**

Not applicableNot 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/)

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