HALLIBURTON

MATERIAL SAFETY DATA SHEET

Product Trade Name: **VICON HT BREAKER**

Revision Date: 02-Jan-2013

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Statement of Hazardous Nature Hazardous according to the criteria of NOHSC, Dangerous Goods according to the criteria of ADG.

Manufacturer/Supplier

Halliburton Australia Pty. Ltd.
15 Marriott Road
Jandakot
WA 6164
Australia

ACN Number: 009 000 775
Telephone Number: 61 (08) 9455 8300
Fax Number: 61 (08) 9455 5300

Product Emergency Telephone
Australia: 08-64244950
Papua New Guinea: 05 1 281 575 5000
NewZealand: 06-7559274

Fire, Police & Ambulance - Emergency Telephone
Australia: 000
Papua New Guinea: 000
New Zealand: 111

Identification of Substances or Preparation

Product Trade Name: VICON HT BREAKER
Synonyms: None
Chemical Family: Oxidant
UN Number: , UN1479
Dangerous Goods Class: 5.1
Subsidiary Risk: None
Hazchem Code: 1WE
Poisons Schedule: S5
Application: Breaker

Prepared By

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

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT	Australia NOHSC	New Zealand WES	ACGIH TLV-TWA
Sodium chlorate	7775-09-9	1 - 5%	Not applicable	Not applicable	Not applicable
Sodium sulfate	7757-82-6	1 - 5%	Not applicable	Not applicable	Not applicable

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chlorous acid, sodium salt	7758-19-2	60 - 100%	Not applicable	Not applicable	Not applicable
Sodium carbonate	497-19-8	1 - 5%	Not applicable	Not applicable	Not applicable
Sodium chloride	7647-14-5	5 - 10%	Not applicable	Not applicable	Not applicable
Sodium hydroxide	1310-73-2	1 - 5%	2 mg/m^3	Not applicable	2 mg/m^3

Non-Hazardous Substance to Total of 100%

3. HAZARDS IDENTIFICATION

Hazard Overview

May cause eye, skin, and respiratory burns. May be fatal if swallowed. May be fatal if inhaled. May effect the blood's ability to carry oxygen. Repeated overexposure may cause liver and kidney effects. Oxidizer.

Risk Phrases

R9 Explosive when mixed with combustible material.
R22 Harmful if swallowed.
R31 Contact with acids liberates toxic gas.
R34 Causes burns.

HSNO Classification

Not Determined

4. 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.

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

Chlorine dioxide vapors are emitted when this product contacts acids or chlorine. If these vapors are inhaled, monitor patient for delayed development of pulmonary edema, which may occur up to 48-72 hours post inhalation. Following ingestion, neutralization and use of activated charcoal is not indicated.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

None known.

Special Exposure Hazards

Oxidizer. May ignite combustibles. Use water spray to cool fire exposed surfaces. Decomposition in fire may produce toxic gases.

Special Protective Equipment for Fire-Fighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures

Use only competent persons for cleanup. Use appropriate protective equipment. Avoid creating and breathing dust.

Environmental Precautionary Measures	Prevent from entering sewers, waterways, or low areas.
Procedure for Cleaning / Absorption	Scoop up and remove. Flush area with water.

7. HANDLING AND STORAGE

Handling Precautions	Avoid contact with eyes, skin, or clothing. Avoid creating or inhaling dust. Wash hands after use. Launder contaminated clothing before reuse.
Storage Information	Store away from acids. Store away from reducing agents. Store away from combustibles. Store in a cool, dry location. Keep from excessive heat. Product has a shelf life of 24 months.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	Use in a well ventilated area. Localized ventilation should be used to control dust levels.
Respiratory Protection	Organic vapor/acid gas/chlorine 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:	Solid
Color:	White
Odor:	Mild chlorine
pH:	> 12
Specific Gravity @ 20 C (Water=1):	Not Determined
Density @ 20 C (kg/l):	Not Determined
Bulk Density @ 20 C (kg/m^3):	Not Determined
Boiling Point/Range (C):	Not Determined
Freezing Point/Range (C):	Not Determined
Pour Point/Range (C):	Not Determined
Flash Point/Range (C):	Not Determined
Flash Point Method:	Not Determined
Autoignition Temperature (C):	Not Determined
Flammability Limits in Air - Lower (g/m^3):	Not Determined
Flammability Limits in Air - Lower (%):	Not Determined
Flammability Limits in Air - Upper (g/m^3):	Not Determined
Flammability Limits in Air - Upper (%):	Not Determined
Vapor Pressure @ 20 C (mmHg):	Not Determined
Vapor Density (Air=1):	Not Determined
Percent Volatiles:	Not Determined
Evaporation Rate (Butyl Acetate=1):	Not Determined
Solubility in Water (g/100ml):	39
Solubility in Solvents (g/100ml):	Not Determined
VOCs (g/l):	Not Determined
Viscosity, Dynamic @ 20 C (centipoise):	Not Determined
Viscosity, Kinematic @ 20 C (centistokes):	Not Determined
Partition Coefficient/n-Octanol/Water:	Not Determined

9. PHYSICAL AND CHEMICAL PROPERTIES

Molecular Weight (g/mole): 90.45
Decomposition Temperature (C): Not Determined

10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid Keep away from heat, sparks and flame. Avoid contact with organic materials. Avoid friction.

Incompatibility (Materials to Avoid) Strong acids. Organic matter. All flammables, especially petroleum products, asphalt & other volatile flammables. Reducing agents. Prolonged contact with aluminum.

Hazardous Decomposition Products Chlorine. Oxygen.

Additional Guidelines Not Applicable

11. TOXICOLOGICAL INFORMATION

Principle Route of Exposure Eye or skin contact, inhalation.

Sympotoms related to exposure

Inhalation Causes severe respiratory irritation. May reduce the blood's ability to transport oxygen.

Skin Contact Causes severe skin irritation. May cause skin burns on prolonged contact.

Eye Contact Causes severe eye irritation May cause eye burns.

Ingestion Causes burns of the mouth, throat and stomach. May cause abdominal pain, vomiting, nausea, and diarrhea. May reduce the blood's ability to transport oxygen (methemalobinemia). May cause liver and kidney damage.

Aggravated Medical Conditions Blood disorders.

Chronic Effects/Carcinogenicity Prolonged or repeated exposure may cause adverse effects on the blood. Repeated overexposure may cause liver and kidney effects.

Other Information None known.

Toxicity Tests

Oral Toxicity: LD50: 165 mg/kg (Rat)

Dermal Toxicity: LD50: > 2000 mg/kg (Rabbit)

Inhalation Toxicity: Not determined

Primary Irritation Effect: Not determined

Carcinogenicity Not determined

Genotoxicity: Not determined

Reproductive / Developmental Toxicity: Not determined

12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Not determined

Bio-accumulation Not determined

Ecotoxicological Information

Acute Fish Toxicity: TLM96: 290 mg/l (Oncorhynchus mykiss) TLM96: 208 mg/l (Lepomis macrochirus)
Acute Crustaceans Toxicity: TLM96: 0.29 mg/l (Daphnia magna)
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 This bag may contain residue of a hazardous material. Some authorities may regulate such containers as hazardous waste. Dispose of container according to national or local regulations.

14. TRANSPORT INFORMATION

Land Transportation

ADR

UN1479,Oxidizing Solid, N.O.S.(Contains Sodium Chlorite, Sodium Chlorate), 5.1, II

Air Transportation

ICAO/IATA

UN1479,Oxidizing Solid, N.O.S., 5.1, II
(Contains Sodium Chlorite, Sodium Chlorate)

Sea Transportation

IMDG

UN1479,Oxidizing Solid, N.O.S.(Contains Sodium Chlorite, Sodium Chlorate), 5.1, II
EmS F-A, S-Q

Other Transportation Information

Labels: Oxidizer

15. REGULATORY INFORMATION

Chemical Inventories

Australian AICS Inventory All components listed on inventory or are exempt.

New Zealand Inventory of Chemicals	This product does not comply with NZIOC
US TSCA Inventory	All components listed on inventory or are exempt.
EINECS Inventory	This product, and all its components, complies with EINECS
Classification	O - Oxidizing. C - Corrosive. Xn - Harmful.
Risk Phrases	R9 Explosive when mixed with combustible material. R22 Harmful if swallowed. R31 Contact with acids liberates toxic gas. R34 Causes burns.
Safety Phrases	S13 Keep away from food, drink, and animal feeding stuffs. S17 Keep away from combustible material. S46 If swallowed, seek medical advice immediately and show this container or label. S1/2 Keep locked up and out of reach of children. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

16. OTHER INFORMATION

The following sections have been revised since the last issue of this SDS
Not applicable

Contact

Australian Poisons Information Centre
24 Hour Service: - 13 11 26
Police or Fire Brigade: - 000 (exchange): - 1100

New Zealand National Poisons Centre
0800 764 766

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.
Disclaimer Statement	This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

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