

SAFETY DATA SHEET**CleanBreak XT**

Revision Date: 28-Apr-2014

Revision Number: 5

1. Product and Company Identification**Product Name****Product Trade Name:** CleanBreak XT**Other Names****Synonyms:** None**Product Code:** HM007087**Recommended Use****Recommended Use** Breaker**Uses Advised Against** No information available**Company Name, Address and Contact Details****Manufacturer/Supplier** Halliburton New Zealand
1 Paraite Rd,
Bell Block, New Plymouth
New Zealand Registration No.: 824207**E-Mail address:** fdunexchem@halliburton.com**Emergency Telephone Number** +64-6-7559274**New Zealand National Poisons
Centre** 0800 764 766 (24 hours)**2. Hazard(s) Identification****Statement of Hazardous Nature**

Not Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulation 2001; Not Classified as dangerous good according to NZS 5433:2012, UN, IMDG or IATA

Classification

Non-hazardous

Hazard and Precautionary Statements**Hazard Pictograms****Signal Word** None**Hazard Statements** Not Hazardous**Precautionary Statements****Prevention** None**Response** None**Storage** None**Disposal** None**Contains**

Substances	CAS Number	Substance HSNO Classification
Citric acid, triethyl ester	77-93-0	Not applicable

2.3 Other Hazards

None known

3. Composition and Information on Ingredients

Substances	CAS Number	PERCENT (w/w)
Citric acid, triethyl ester	77-93-0	60 - 100%

4. First-Aid Measures**Requirements for First Aid or Medical Care**

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

Workplace Facilities Required

None

Relation to Health Effect**Most Important Symptoms/Effects**

No significant hazards expected.

Medical Attention and Special Treatment**Notes to Physician**

Treat symptomatically

5. Fire-fighting measures**Type of Hazard****Flammability Hazard**

Combustible Liquid

5.1 Extinguishing media**Suitable Extinguishing Media**

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

None known.

HAZCHEM Code

Hazchem Code: None Allocated

Special Protective Equipment and Precautions for Fire Fighters**Special Protective Equipment for Fire-Fighters**

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

Special Exposure Hazards

Not applicable.

6. Spillage, Accidental Release Measures**6.1 Personal precautions, protective equipment and emergency procedures**

Use appropriate protective equipment. Slippery when wet.

See Section 8 for additional information

6.2 Environmental precautions

Prevent from entering sewers, waterways, or low areas.

6.3 Methods and material for containment and cleaning up

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Scoop up and remove.

6.4 Reference to other sections

See Section 8 and 13 for additional information.

7. Handling and Storage

7.1 Precautions for Safe Handling

Handling Precautions

Wash hands after use. Avoid contact with eyes, skin, or clothing. Avoid breathing mist. Avoid breathing vapors.

Handling Practices

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

Approved Handlers

This product does NOT require an approved handler.

7.2 Conditions for safe storage, including any incompatibilities

Keep from freezing. Store away from oxidizers. Keep container closed when not in use. Store in a well ventilated area. Product has a shelf life of 24 months.

Store Site Requirements

No special controls required

Packaging

No special packaging required

8. Exposure Controls and Personal Protection

Workplace Exposure Standards

Exposure Limits

Substances	CAS Number	New Zealand WES	ACGIH TLV-TWA
Citric acid, triethyl ester	77-93-0	Not applicable	Not applicable

Engineering Controls

Engineering Controls

Use in a well ventilated area.

Personal Protective Equipment (PPE)

Respiratory Protection

If engineering controls and work practices cannot keep exposure below occupational exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, AS/NZS 1715:2009, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or other qualified professional.

Not normally needed. But if significant exposures are possible then the following respirator is recommended:

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

Normal work gloves.

Normal work coveralls.

Chemical goggles; also wear a face shield if splashing hazard exists.

None known.

Handle in accordance with good industrial hygiene and safety practice

Hand Protection

Skin Protection

Eye Protection

Other Precautions

Hygiene Measures

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State: Liquid

Odor: Odorless

Color: Light green

Odor Threshold: No information available

Property Remarks/ - Method	Values
pH:	No data available
Freezing Point/Range	-45 °C
Melting Point/Range	No data available
Boiling Point/Range	294 °C
Flash Point	155 °C Closed cup
Evaporation rate	No data available
Vapor Pressure	< 1 mmHg
Vapor Density	9.54
Specific Gravity	1.14
Water Solubility	Soluble in water
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No information available
Oxidizing Properties	No information available
9.2 Other information	
Molecular Weight	276.28
VOC Content (%)	No data available

10. Stability and Reactivity

10.2 Chemical Stability

Stable

10.4 Conditions to Avoid

None anticipated

10.5 Incompatible Materials

None known.

10.6 Hazardous Decomposition Products

Carbon monoxide and carbon dioxide.

Hazardous Reactions

Hazardous Polymerization: Will Not Occur

11. Toxicological Information

Health Effect from Likely Routes of Exposure

Acute Toxicity

Inhalation	May cause mild respiratory irritation.
Eye Contact	May cause mild eye irritation.
Skin Contact	May cause mild skin irritation.
Ingestion	May cause abdominal pain, vomiting, nausea, and diarrhea.

Chronic Effects/Carcinogenicity

No data available to indicate product or components present at greater than 1% are chronic health hazards.

Toxicity Data

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Citric acid, triethyl ester	77-93-0	5900 mg/kg (Rat)	> > 5000 mg/kg (Rabbit)	1300-3500 ppm (Rat) 6h

12. Ecological Information

12.1 Toxicity

Ecotoxicity Effects

Product Ecotoxicity Data

No data available

Substance Ecotoxicity Data

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Citric acid, triethyl ester	77-93-0	EC50(72h): > 100 mg/L (Pseudokirchnerella subcapitata)	EC50: 2300-2700 mg/L (Leuciscus idus) LC50(96h): 112.02 mg/L	No information available	EC50(48): > 100 mg/L (Daphnia magna) (Mobility)

12.2 Persistence and degradability

Readily biodegradable

Substances	Persistence and Degradability
Citric acid, triethyl ester	Readily biodegradable (77-79% @ 28d)

12.3 Bioaccumulative potential

Does not bioaccumulate

Substances	Log Pow
Citric acid, triethyl ester	1.17

12.4 Mobility in soil

No information available

Ecotoxicity Hazard Statements

None known

12.6 Other adverse effects

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

13. Disposal Considerations

13.1 Waste treatment methods

Disposal Method

Contaminated Packaging

Disposal should be made in accordance with federal, state, and local regulations. Empty container completely. Transport with all closures in place. Return for reuse or dispose in a sanitary landfill according to national or local regulations.

14. Transport Information

IMDG/IMO

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

NZ 5433.1999

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

IATA/ICAO

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

Packing Group: Not applicable

Special Precautions for User None

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

15. Regulatory Information

New Zealand Inventory of Chemicals All components listed on inventory or are exempt.

HSNO Approval Number Non-hazardous

Group Name Not Applicable

HSNO Controls Refer to the NZ EPA website for more information: <http://www.epa.govt.nz>

Approved Handlers Not Applicable

Poisons Schedule: None Allocated

16. Other information, including date of preparation or last revision

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

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 literature references and sources for data

www.ChemADVISOR.com/
NZ CCID

Revision Date: 28-Apr-2014

Revision Note

Not applicable

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End of Safety Data Sheet