

SAFETY DATA SHEET

CleanLink

Revision Date: 17-Apr-2014

Revision Number: 7

1. Product and Company Identification

Product Name

Product Trade Name: CleanLink

Other Names

Synonyms: None

Product Code: HM007082

Recommended Use

Recommended Use Crosslinker

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

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

6.3A Irritating to the skin

6.4A Irritating to the eye

6.9B Harmful to human target organs or systems

9.1C Harmful in the aquatic environment

Hazard and Precautionary Statements

Hazard Pictograms



Signal Word

Warning

Hazard Statements

H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 H373 - May cause damage to organs through prolonged or repeated exposure
 H402 - Harmful to aquatic life

Precautionary Statements

Prevention

P103 - Read label before use
 P104 - Read Safety Data Sheet before use
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray
 P264 - Wash face, hands and any exposed skin thoroughly after handling
 P280 - Wear protective gloves/eye protection/face protection

Response

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
 P332 + P313 - If skin irritation occurs: Get medical advice/attention
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P337 + P313 - If eye irritation persists: Get medical advice/attention
 P314 - Get medical attention/advice if you feel unwell

Storage

None

Disposal

P501 - Dispose of contents/container to an approved waste disposal plant

Contains

Substances	CAS Number	Substance HSNO Classification
Inorganic salt	Proprietary	6.1D (Oral) 6.1E (Inhalation) 6.3A 6.4A 8.1A 9.1B (Fish) 9.3C
Sulfuric acid	7664-93-9	6.1D (Inhalation) 6.1E (Oral) 6.7A 8.2B 6.9A 8.1A 8.2B 8.3A 9.1C (Crustacean) 9.1D (Fish)

2.3 Other Hazards

None known

3. Composition and Information on Ingredients

Substances	CAS Number	PERCENT (w/w)
Inorganic salt	Proprietary	5 - 10%
Sulfuric acid	7664-93-9	1 - 5%

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

Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

Skin

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

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**

May cause severe eye irritation. May cause skin and respiratory irritation. May be harmful if inhaled

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

Treat symptomatically

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

Non-flammable

5.1 Extinguishing media**Suitable Extinguishing Media**

All standard fire fighting media

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**

Not applicable.

Special Exposure Hazards

Not applicable.

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

Use appropriate protective equipment.

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. Neutralize with lime slurry, limestone, or soda ash. 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**

Avoid contact with eyes, skin, or clothing. Avoid breathing mist.

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

Store in a cool, dry location. Store in a well ventilated area. Keep container closed when not in use. Store locked up. 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
Inorganic salt	Proprietary	TWA: 2 mg/m ³	2 mg/m ³
Sulfuric acid	7664-93-9	TWA: 1 mg/m ³	TWA: 0.2 mg/m ³

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)

Impervious rubber gloves.

Normal work coveralls.

Wear safety glasses or goggles to protect against exposure.

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
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9.1 Information on basic physical and chemical properties**Physical State:** Liquid**Color:** White**Odor:** Odorless**Odor Threshold:** No information available**Property****Values**

Remarks/ - Method

pH:

0.80

Freezing Point/Range

No data available

Melting Point/Range

No data available

Boiling Point/Range

No data available

Flash Point

No data available

Evaporation rate

No data available

Vapor Pressure

No data available

Vapor Density

No data available

Specific Gravity

1.01

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**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

Strong alkalis.

10.6 Hazardous Decomposition Products

Oxides of sulfur.

Hazardous Reactions

Hazardous Polymerization: Will Not Occur

11. Toxicological Information

Health Effect from Likely Routes of Exposure

Acute Toxicity

Inhalation	May cause respiratory irritation.
Eye Contact	May cause severe eye irritation.
Skin Contact	May cause skin irritation.
Ingestion	In large amounts: May cause abdominal pain, vomiting, nausea, and diarrhea.

Chronic Effects/Carcinogenicity Contains sulfuric acid, a potential carcinogen.

Toxicity Data

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Inorganic salt	Proprietary	1930 mg/kg (Rat) > 2000 < 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	5 mg/L (Rat, aerosol) 4h (Similar substance)
Sulfuric acid	7664-93-9	2140 mg/kg (Rat)	No data available	347 ppm (Rat) 1 h 510 mg/m ³ (Rat) 2 h 295 mg/m ³ (Rat) 4h 375 mg/m ³ (Rat) 4h 160 mg/m ³ (Mouse) 4h 15 mg/m ³ (Guinea pig) 4h 9 mg/m ³ (Guinea pig) 4h

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
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Inorganic salt	Proprietary	EC50(72h): 14 mg/L (growth rate) (Pseudokirchnerella subcapitata)	LC50: 100 mg/L (Carassius auratus) LC50(96h): 186 mg/L (Danio rerio) LC50(42d): 15 ug/L (dissolved Aluminium) (Salmo trutta) NOEC(60d): 26 ug/L (mortality in Fry) (Salvelinus fontinalis)	EC50(180min): > 1000 mg/L (activated sludge)	EC50(48h): 136 mg/L (Daphnia magna) EC50(48h): > 200 mg/L (Daphnia magna) NOEC(8d): 3.8 mg/L (reproduction) (Ceriodaphnia dubia) (Similar substance)
Sulfuric acid	7664-93-9	EC50(72h): > 100 mg/L (growth rate) (Desmodesmus subspicatus)	LC50: >500 mg/L (Brachydanio rerio) LC50(96h) > 16 and < 28 mg/L (Lepomis macrochirus) NOEC(65d): 0.025 mg/L (fry growth) (Jordanella floridae) NOEC(chronic): 0.31 mg/L (larval development) (Salvelinus fontinalis)	NOEC(21d): 6.61 pH (total bacteria) NOEC(37d): ca. 26 g/L (activated sludge, respiration rate) (Similar substance)	EC50(48h): 29 mg/L (Daphnia magna) EC50(48h): > 100 mg/L (Daphnia magna) NOEL(chronic): 0.15 mg/L (mortality) (Tanytarsus dissimilis)

12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

Substances	Persistence and Degradability
Inorganic salt	The methods for determining biodegradability are not applicable to inorganic substances.
Sulfuric acid	The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

No information available

12.4 Mobility in soil

No information available

Ecotoxicity Hazard Statements

Harmful to aquatic life

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**

Disposal should be made in accordance with federal, state, and local regulations. Substance should NOT be deposited into a sewage facility.

Contaminated Packaging

Follow all applicable national or local regulations. Contaminated packaging may be disposed of by: rendering packaging incapable of containing any substance, or treating packaging to remove residual contents, or treating packaging to make sure the residual contents are no longer hazardous, or by disposing of packaging into commercial waste collection.

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.
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HSNO Approval Number	HSR002503
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Group Name	Additives, Process Chemicals and Raw Materials (Subsidiary hazard HSR002503)
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HSNO Controls	Refer to the NZ EPA website for more information: http://www.epa.govt.nz
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Approved Handlers	Not Applicable
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Poisons Schedule:	S6
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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.
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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: 17-Apr-2014**Revision Note**

Not applicable

Disclaimer Statement

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End of Safety Data Sheet