HALLIBURTON

SAFETY DATA SHEET CALCIUM CHLORIDE - FLAKE

Revision Date: 25-Sep-2014 Revision Number: 14

1. Product and Company Identification

Product Name

Product Trade Name: CALCIUM CHLORIDE - FLAKE

Other Names

Synonyms: None Product Code: HM000142

Recommended Use

Recommended Use Additive

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

6.1D (Oral) Acutely Toxic Substances

6.1E (Dermal) Acutely Toxic Substances

6.3A Irritating to the skin

6.4A Irritating to the eye

9.3C Harmful to terrestrial vertebrates

Hazard and Precautionary Statements

Hazard Pictograms



Signal Word Warning

Hazard Statements H302 - Harmful if swallowed

H313 - May be harmful in contact with skin

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H433 - Harmful to the terrestrial vertebrates.

Precautionary Statements

Prevention P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P103 - Read label before use

P104 - Read Safety Data Sheet before use

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product P280 - Wear protective gloves/eye protection/face protection

Response P301+ P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

P330 - Rinse mouth

P331 - Do NOT induce vomiting

P312 - Call a POISON CENTER or doctor/physician if you feel unwell P302 + P352 - IF ON SKIN: Wash with plenty of soap and water P332 + P313 - If skin irritation occurs: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse

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

Storage None

Disposal P501 - Dispose of contents/container to an approved landfill

Contains

Substances	CAS Number	Substance HSNO Classification
Calcium chloride	10043-52-4	6.1D (Oral)
		6.1E (Dermal)
		6.3A
		6.4A
		9.3C
Sodium chloride	7647-14-5	6.1E (Oral)
		6.4A
Potassium chloride	7447-40-7	6.1E (oral)
		6.3B
		6.4A
		9.3B

2.3. Other Hazards

None known

3. Composition and Information on Ingredients

Substances	CAS Number	PERCENT (w/w)
Calcium chloride	10043-52-4	60 - 100%
Sodium chloride	7647-14-5	1 - 5%
Potassium chloride	7447-40-7	1 - 5%

4. First-Aid Measures

Requirements for First Aid or Medical Care

If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation Inhalation

develops or if breathing becomes difficult.

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.

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

contaminated clothing and launder before reuse.

Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical Ingestion

attention. Never give anything by mouth to an unconscious person.

Workplace Facilities Required

None

Skin

Relation to Health Effect

Most Important Symptoms/Effects

May cause eye irritation

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

None Allocated **Hazchem Code:**

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. Avoid creating and breathing dust.

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

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 creating or inhaling dust.

Handling Practices

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

Approved Handlers

This product does NOT require an approved handler.

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7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry location.

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
Calcium chloride	10043-52-4	Not applicable	Not applicable
Sodium chloride	7647-14-5	Not applicable	Not applicable
Potassium chloride	7447-40-7	Not applicable	Not applicable

Engineering Controls

Engineering Controls Use in a well ventilated area.

Personal Protective Equipment (PPE)

Dust/mist respirator. (N95, P2/P3) **Respiratory Protection**

Hand Protection Normal work gloves. **Skin Protection** Normal work coveralls.

Eye Protection Wear safety glasses or goggles to protect against exposure. **Other Precautions** Eyewash fountains and safety showers must be easily accessible. **Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice

9. Physical and Chemical Properties

Values

9.1. Information on basic physical and chemical properties

Physical State: Solid White

Odor: Odorless Odor Threshold: No information available

Property

Remarks/ - Method

pH: 10

No data available Freezing Point/Range **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 No data available **Vapor Density**

Specific Gravity 1.85

Water Solubility Soluble in water No data available Solubility in other solvents Partition coefficient: n-octanol/water No data available No data available **Autoignition Temperature Decomposition Temperature** No data available No data available Viscosity **Explosive Properties** No information available

Oxidizing Properties No information available

9.2. Other information

Molecular Weight

VOC Content (%) No data available

10. Stability and Reactivity

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10.2. Chemical Stability

Stable

10.4. Conditions to Avoid

None anticipated

10.5. Incompatible Materials

None known.

10.6. Hazardous Decomposition Products

None known.

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. May cause corneal injury.

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

Ingestion Causes burns of the mouth, throat and stomach.

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
Calcium chloride	10043-52-4	> 1000 mg/kg (Rat) 2301 mg/kg (Rat)	2630 mg/kg (Rat) > 5000 mg/kg (Rabbit)	No data available
Sodium chloride	7647-14-5	3 g/kg (Rat)	10 g/kg (Rabbit)	42 g/m³(Rat)1 h
Potassium chloride	7447-40-7	2600 mg/kg (Rat) 2430 mg/kg (Rat) 3020 mg/kg (Rat) 383 mg/kg (Mouse) 1500 mg/kg (Mouse)	> 2000 mg/L (Rabbit) (similar substance)	No data available

Test species: Rat

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
Calcium chloride	10043-52-4	EC50(72h): 2900 mg/L (Pseudokirchnerella subcapitata)	LC50(96h): 4630 mg/L (Pimephales promelas)	No information available	EC50(48h): 2400 mg/L (Daphnia magna) EC50(21d) 610 mg/L (reproduction) (Daphnia magna)

Sodium chloride	7647-14-5	EC50(120h): 2430 mg/L (cell number) (Nitzschia sp.)	TLM96: > 1000 mg/l (Oncorhynchus mykiss) LC50(96h): 5840 mg/L (Lepomis macrochirus) NOEC(33d): 252 mg/L (Pimephales promelas)	EC10 = 35000 mg/L;<br NOEC 5000 – 8000 mg/L (activated sludge) NOEC 292-584 mg/L (Escherichia coli)	TLM96: > 1,000,000 ppm (Mysidopsis bahia) LC50(48h): 874 - 4136mg/L (Daphnia magna) NOEC(21d): 314 mg/L (Daphnia pulex)
Potassium chloride	7447-40-7	EC50(72h): 2500 mg/l (Desmodesmus subspicatus) EC50(72h): > 100 mg/L (growth rate) (Desmodesmus subspicatus)	LC50: 1060 mg/L (Lepomis macrochirus); LC50: 750-1020 mg/L (Pimephales promelas)	EC50(3h): >1000 mg/L (activated sludge)	TLM96: 100-330 ppm (Crangon crangon) EC50(24h): >= 580 <=990 mg/L (Daphnia magna) EC50(48h): >=440 <= 880 mg/L (Daphnia magna)

12.2. Persistence and degradability

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

Substances	CAS Number	Persistence and Degradability
Calcium chloride	10043-52-4	The methods for determining biodegradability are not applicable to inorganic substances.
Sodium chloride	7647-14-5	The methods for determining biodegradability are not applicable to inorganic substances.
Potassium chloride	7447-40-7	The methods for determining biodegradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
Calcium chloride	10043-52-4	No data available
Sodium chloride	7647-14-5	No data available
Potassium chloride	7447-40-7	No data available

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 Bury in a licensed landfill according to federal, state, and local regulations.

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

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

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

This product does not comply with NZIOC

HSNO Approval Number HSR002503

Additives, Process Chemicals and Raw Materials (Subsidiary hazard HSR002503) **Group Name**

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: 25-Sep-2014 **Revision Note**

Not applicable

Disclaimer Statement

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End of Safety Data Sheet