

Fluid Fertilisers NZ Ltd

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MATERIAL SAFETY DATA SHEET

Date of Issue: 10/08/99

Version No: 2

IDENTIFICATION

Product Name: **Hortrange *calcium***
Other Names: Calcium
Dangerous Goods Class: None allocated
Hazchem Code: None allocated
Toxic Substances Schedule: None allocated
Uses: Foliar nutrient for horticultural crops.

Physical Description/Properties:

Appearance: Clear to slightly hazy brown solution
Boiling Point: > 100°C
Melting Point: Not applicable
Vapour Pressure: Unknown
Specific Gravity: 1.34
Flash Point: Not applicable
Upper Flammability Limit: Not applicable
Lower Flammability Limit: Not applicable
Solubility in Water: Infinite

Other Properties:

Ingredients:

<u>Chemical Entity</u>	<u>Cas. No</u>	<u>Proportion(%w/v)</u>
Calcium chloride	10043-52-4	30 – 60%
Monopropylene glycol	57-55-6	< 5%
Polysiloxane	27306-78-1	< 5%
Seaweed extract		< 5%
Water	7732-18-5	30 – 60%

HEALTH HAZARD INFORMATION

Health Effects

Acute	Swallowed	Single dose oral toxicity is low. Ingestion may cause some gastrointestinal irritation.
	Eye	May cause moderate eye irritation with some corneal injury
	Skin	Short time exposure is not likely to cause irritation.
	Inhaled	During normal use there are no known health effects.
Chronic		Long term exposure on the skin may cause dermatitis on sensitive skins.

First Aid

Swallowed	If swallowed, induce vomiting by immediately drinking two glasses of water and sticking fingers down the throat. Call a physician.
Eye	Irrigate with flowing water immediately and continuously for 15 minutes. Consult a physician.
Skin	Wash off with flowing water.
Inhaled	Remove to fresh air if any effects occur.

Toxicity Data

LD 50 (oral)	> 2000	mg/kg (rat)
LD 50 (dermal)	> 2000	mg/kg (guinea pig)
LC 50 (inhalation)	Not available	mg/l

PRECAUTIONS FOR USE

Personal Protection

When measuring concentrate into spray tank use safety glasses to prevent splashing into eyes. Upon dilution and normal spraying conditions use a protective mask to prevent spray mist from entering airways.

Flammability

Material is non-flammable.

SAFE HANDLING INFORMATION

Storage/Transport

Transport or store in tightly sealed containers in a cool dry place below 30°C.

Packaging / Labelling

<u>U.N. No:</u>	None Allocated	<u>Class:</u>	None Allocated	<u>Subs Risk:</u>	None Allocated
<u>Hazchem Code:</u>	None Allocated	<u>Pack Group:</u>	None Allocated	<u>EPG No:</u>	None Allocated
<u>Hazard:</u>	None Allocated				

Spills and Disposal

Spills

No special precautions need to be taken.

Recover quickly into suitable containers if reusing.

Small quantities may be flushed away with plenty of water. Walking surfaces may remain wet and slippery longer due to moisture being held by spilled product – avoid by thoroughly washing surface with water.

As it is a plant nutrient it is preferable to contain a spillage or wash into soils rather than into sewers, stormwater drains, natural waters, and drinking water sources. Due to possible harmful effects, in the concentrated form, avoid contact with vegetation, animals and fish life.

Disposal (after treatment above)

Observe all statutory regulations before disposing of small quantities into sewer or landfill or local waterway.

Fire and Explosion Hazard

Will not burn or explode.

Hazardous polymerisation will not occur.

Disclaimer:

This information contained in this MSDS has been prepared to the best of our ability and knowledge. We, Fluid Fertilisers NZ Ltd, will not be responsible for any damage or injury to any machinery or person as the use of this product is beyond our control.