

# SAFETY DATA SHEET

#### Section 1. Identification of the material and the supplier

Product: LIQUIDSEAL® for gerberas post-harvest

Product No:

Product Use: Coating for: Gerberas Refer to Section 15 Restriction of Use:

New Zealand Supplier:

Horticentre Ltd 10 Firth Street

Address:

Drury, 2113

Telephone: +64 9 294 8453 Fax Number: +64 9 294 7272

**Emergency Telephone:** 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 13 August 2019

### Section 2. **Hazards Identification**

The manufacturer has stated this substance is NON hazardous according to the EPA **Hazardous Substances (Classification) Notice 2017** 

### Section 3. **Composition / Information on Ingredients**

No hazardous product:

Copolymer of: ethylene + vinyl esters (dispersion in water)

#### Section 4. **First Aid Measures**

## Routes of Exposure:

Rinse cautiously with water for several minutes. If eye irritation occurs: If in Eyes

Get medical advice.

If on Skin Wash with plenty of soap and water. If skin irritation occurs: get medical

advice.

If Swallowed Immediately rinse the mouth with water, then drink a lot of water. Consult

the doctor in case of persistent trouble. Get medical assistance if you feel

unwell.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if

breathing becomes difficult.

## Most important symptoms and effects, both acute and delayed

Symptoms: None known

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Advice for Doctor: Due to its physical properties, although in the dilutions used this is highly

unlikely, the product if ingested in large Quantities (half a liter or over) may cause mechanical irritation as it may agglutinate in the gastro-intestinal tract. Medical assistance should be sought. Depending on the

symptoms, invasive measures may be necessary.

Section 5.	Fire Fighting Measures	
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Hazard Type	Non Flammable. Dried up material is combustible.
Hazards from	At low oxygen level: acetic acid.
decomposition	
products	
Suitable	Use extinguishing measures appropriate to the source of the fire.
Extinguishing	
media	
Precautions for	Use respiratory protection independent of recirculated air.
firefighters and	
special protective	
clothing	
HAZCHEM CODE	None allocated

## Section 6. Accidental Release Measures

Wear suitable protecting clothes. If material is released indicate risk of slipping.

Prevent material from entering sewers or surface waters.

Contain any fluid that runs out using suitable material (e.g. earth). Take up mechanically. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations.

Contain larger amounts and pump up into suitable containers. Clean up with plenty of water. Dispose of cleansing water in accordance with local regulations detailed in Section 13.

# Section 7. Handling and Storage

## Handling

- Spilled substance increases risk of slipping.
- Read label before use.

### Storage

- Protect against frost.
- Minimum temperature allowed during storage and transportation: 0 °C
- Store away from incompatible materials listed in Section 10.

## **Section 8 Exposure Controls / Personal Protection**

## **WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

TWA STEL Substance ppm mg/m³ ppm mg/m³

No ingredient has exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

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# **Engineering Controls**

No special measures required.

**Personal Protection Equipment** 

Eyes	Not required.
Hands	Not required.
Skin	Not required.
Respiratory	Not required.

### Section 9 **Physical and Chemical Properties**

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Appearance	Liquid	
Colour	White	
Odour	Slight	
Odour Threshold	Not applicable	
pH	6 - 6.5	(DIN/ISO 976)
<b>Boiling Point</b>	Approx. 100°C	
Melting Point	Approx. 0.00°C	
Freezing Point	Not applicable	
Flash Point	Not applicable	
Flammability	Not applicable	
Upper and Lower	Not applicable	
<b>Explosive Limits</b>		
<b>Explosive hazards</b>	Not applicable	
Vapour Pressure	23 hPa at 20 °C	
Vapour Density	Not applicable	
Density @ 20°C	approx. 1,05 g/cm <sup>3</sup> (DIN	EN ISO 2811-1)
Water Solubility	Moderately soluble	
Partition Coefficient:	Not applicable	
Self-ignition	Not applicable	
Decomposition	Not applicable	
Temperature		
Kinematic Viscosity	Not applicable	
Particle Characteristics	Not applicable	

# **Section 10. Stability and Reactivity**

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous	None known.
reactions	
Conditions to Avoid	None known.
Incompatible Materials	None known.
<b>Hazardous Decomposition</b>	If stored and handled in accordance with standard industrial
Products	practices and local regulations where applicable: none known.
	At increased temperature: acetic acid.

### **Toxicological Information** Section 11

## **Acute Effects:**

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
Skin	Not applicable.

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## **Chronic Effects:**

Carcinogenicity	Not applicable.
Reproductive	Not applicable.
Toxicity	
Germ Cell	Not applicable.
Mutagenicity	
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

## **Section 12. Ecotoxicological Information**

This product is not known to be hazardous to the environment.

### **Ecotoxicity**

Species	Test method	Exp. Time	Result	Source
Carp (Cyprinus carpio)	Acute	96 h	> 1000 mg/l (LC50)	test report

No expected damaging effects to aquatic organisms.

Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):

Test system	Exp. Time	Result	Source
Sludge	0,5 h	>1000 mg/l (EC10)	test report

According to current knowledge adverse effects on water purification plant are not expected.

Even though unlikely to have effects in light of concentrations used, prevent material from entering surface waters and Soil. In light of dilutions used, safe to release to water purification plants in its diluted state. No environmental problems Expected if handled and treated in accordance with standard industrial practices and local regulations where applicable Especially when taking into account low concentrations used. The ecotoxicological results provided were obtained from Tests with similar products albeit at much higher concentrations.

## Section 13. Disposal Considerations

## **Disposal Method:**

Triple rinse container. Can be disposed of with domestic waste.

**Precautions or methods to avoid:** Dispose of unwanted product as a hazardous material according to Local Regulations.

## Section 14 Transport Information

This product is not classified as a Dangerous Good for transport in NZ; NZS 5433:2012

# Section 15 Regulatory Information

The manufacturer has stated this substance is NON hazardous according to the EPA Hazardous Substances (Classification) Notice 2017.

Section 16	Other Information
Glossary	
EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms

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inhaling or ingesting it.

Lethal dose to kill 50% of test animals/organisms.  $LD_{50}$ 

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

Threshold Limit Value-an exposure limit set by responsible TLV

authority.

UEL Upper Explosive Level WES Workplace Exposure Limit

### References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017

- 2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2012
- 5. HSW (Hazardous Substances) Regulations 2017

### Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-todate information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact the Australian / New Zealand distributor, if further information is required.

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