

## SAFETY DATA SHEET

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

Product: Florissant 500N  
 Product No:  
 Product Use: Cut Flower Conditioner  
 Restrictions of Use: Refer to Section 15

New Zealand Supplier: Horticulture Ltd  
 Address: 10 Firth Street  
 Drury, 2113

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

New Zealand: **0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 24 January 2023

### Section 2. Hazards Identification

**Classified as hazardous according to Regulation (EC) No. 1272/2008 [CLP] which meets New Zealand jurisdiction criteria as per EPA Hazardous Substances (Safety Data Sheets) Notice 2017.**

**EPA Approval No: Additives, Process Chemicals and Raw Materials (subsidiary) – HSR002503**

#### Pictograms



Signal Word: **WARNING**

GHS Classification and Category	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Eye irritation Cat. 2	H319	Causes serious eye irritation.
specific target organ toxicity – single exposure Cat. 3 respiratory tract irritation	H335	May cause respiratory irritation.
Hazardous to the aquatic environment acute/chronic Cat. 1	H400/410	Very toxic to aquatic life with long lasting effects.

#### Prevention Code      Prevention Statement

P102	Keep out of reach of children.
P103	Read label before use.
P261	Avoid breathing dust.

P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

**Response Code      Response Statement**

P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
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 Code      Storage Statement**

P405	Store locked up.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

**Disposal Code      Disposal Statement**

P501	Triple rinse container. Cleaned packaging maybe offered for recycling or landfill in accordance with local regulations. Dispose of unwanted product as a hazardous material according to Local Regulations.
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**Section 3.      Composition / Information on Ingredients**

<b>Ingredients</b>	<b>Wt%</b>	<b>CAS NUMBER.</b>
troclosene sodium, dihydrate	50 - 97	51580-86-0

**Section 4.      First Aid Measures**

Routes of Exposure:

If in Eyes	Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.
If on Skin	In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters), seek medical advice.
If Swallowed	Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.
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: Causes serious eye irritation. Harmful if swallowed. May cause respiratory irritation.

## Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Non Flammable
<b>Hazards from combustion products</b>	As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.
<b>Suitable Extinguishing media</b>	In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder).
<b>Precautions for firefighters and special protective clothing</b>	Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,) in accordance with Directive 89/654/EC. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.
<b>HAZCHEM CODE</b>	<b>2Z</b>

## Section 6. Accidental Release Measures

Wear appropriate PPE as detailed in Section 8.

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal. Dispose of according to Section 13.

## Section 7. Handling and Storage

### Handling

- Read label before use.
- Avoid breathing dust.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Keep containers hermetically sealed.
- Avoid leakages from the container.

### Storage

- Store away from incompatible materials listed in Section 10.
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
- Keep out of reach of children.
- Storage temp: Minimum: 4°C Maximum: 30°C
- Maximum time: 24 months.
- Avoid sources of heat, radiation, static electricity and contact with food.

## Section 8 Exposure Controls / Personal Protection

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

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Nuisance Dust: Inhalable dust	-	10	-	-
Respirable dust	-	4	-	-

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 APRIL 2022 13TH EDITION.

### Engineering Controls

Ensure adequate ventilation is available.

### Personal Protective Equipment



<b>Eyes</b>	In case of dust formation: Tightly fitting safety goggles.
<b>Hands and Skin</b>	Not required.
<b>Respiratory</b>	The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

## Section 9 Physical and Chemical Properties

<b>Appearance</b>	Solid Tablets
<b>Colour</b>	According to markings on the package
<b>Odour</b>	Chlorine
<b>Odour Threshold</b>	Not available
<b>pH @ 20°C</b>	Not available
<b>Boiling Point</b>	Not available
<b>Melting/Freezing Point</b>	250°C
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not available
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Density @ 20°C</b>	990 kg/m <sup>3</sup>
<b>Solubilities</b>	Soluble
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not available

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Conditions to Avoid</b>	None known. Heat, flames and sparks.
<b>Hazardous Reactions</b>	No hazardous reactions are expected because the product is stable under recommended storage conditions.
<b>Incompatible Materials</b>	Avoid alkalis and strong bases.
<b>Hazardous Decomposition Products</b>	Produces toxic gases.

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Harmful if swallowed. The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	May cause respiratory irritation. Can be fatal after prolonged periods of exposure, as it releases toxic gases when it comes into contact with acids.
<b>Eye</b>	Causes severe irritation to eyes.
<b>Skin</b>	Not applicable.

### Chronic Effects:

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

### Components:

#### **troclosene sodium, dehydrate (51580-86-0):**

Acute oral toxicity : LD50 (Rat): 1420 mg/kg

Acute inhalation toxicity : LC50 : >5 mg/l (4hr)

Acute dermal toxicity : LD50 : > 2000 mg/kg

## Section 12. Ecotoxicological Information

Very toxic to aquatic life with long lasting effects.

### Components:

#### **troclosene sodium, dehydrate (51580-86-0):**

Toxicity to fish Acute: LC50 (Fish): >0.1 - 1 mg/l  
Exposure time: 96 h  
Chronic: NOEC 1000mg/l (Oncorhynchus mykiss)

Toxicity to crustacean Acute : EC50 : >0.1 – 1 mg/l  
Exposure time: 48 h  
Chronic: 160 mg/L (Daphnia Magna)

Toxicity to algae : EC50 : >0.1 - 1 mg/l  
Exposure time: 72 h

<b>Persistence and degradability</b>	No data available.
<b>Bioaccumulation</b>	No data available.
<b>Mobility in Soil</b>	No data available.
<b>Other adverse effects</b>	No data available.

Do not allow to enter waterways.

### Section 13. Disposal Considerations

**Disposal Method:**

Triple rinse container. Cleaned packaging maybe offered for recycling or landfill in accordance with local regulations. Dispose of unwanted product as a hazardous material according to Local Regulations.

**Precautions and methods to avoid:**

Do not allow to enter into surface water or drains where possible.

### Section 14 Transport Information

**This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021**



**Road, Rail, Sea and Air Transport**

<b>UN No</b>	<b>3077</b>
<b>Class - Primary</b>	<b>9</b>
<b>Packing Group</b>	<b>III</b>
<b>Proper Shipping Name</b>	<b>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (trosclosene sodium, dihydrate)</b>
<b>Marine Pollutant</b>	<b>Yes</b>
<b>Special Provisions</b>	<b>If the product's individual container is below 5L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.</b>

### Section 15 Regulatory Information

**Classified as hazardous according to Regulation (EC) No. 1272/2008 [CLP] which meets New Zealand jurisdiction criteria as per EPA Hazardous Substances (Safety Data Sheets) Notice 2017.**

EPA Approval Code: Additives, Process Chemicals and Raw Materials (subsidiary) – HSR002503

**Trigger quantities:**

<b>HSWA &amp; EPA Controls</b>	<b>Trigger Quantity</b>
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	100kg
Emergency Response Plan	100kg
Secondary Containment	100kg
Restriction of Use	None

**Glossary**

Cat	Category
EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible 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 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
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-to-date 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 New Zealand distributor, if further information is required.

Issue Date:

24 January 2023

Review Date:

24 January 2028