

Infosafe No™ 3NU8F	Issue Date : September 2024	ISSUED by NUFARMNZ
Product Name <b>STABILAN® 750 SL</b>		

## Section 1 - Identification

<b>Product Identifier</b>	STABILAN® 750 SL
<b>Product Code</b>	04590
<b>Product Type</b>	Plant Growth Regulator
<b>Company Name</b>	Nufarm NZ
<b>Address</b>	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
<b>Telephone/Fax Number</b>	Tel: 0-9-270 4150
<b>Emergency Phone Number</b>	0800 651 911
<b>Email</b>	nzinfo@nufarm.com
<b>Recommended uses and any restrictions on use or supply</b>	A plant growth regulator for use on wheat, barley, oats and perennial ryegrass seed crops.
<b>Other Information</b>	This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

## Section 2 - Hazard(s) Identification

<b>GHS classification of the substance/mixture</b>	Corrosive to metals: Category 1 Acute oral toxicity: Category 4 Acute dermal toxicity: Category 3 Specific target organ toxicity - repeated exposure: Category 2 Hazardous to the terrestrial environment: Hazardous to terrestrial vertebrates
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H290 May be corrosive to metals H311 Toxic in contact with skin H302 Harmful if swallowed H432 Toxic to terrestrial vertebrates
<b>Precautionary Statement - General</b>	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.
<b>Pictogram (s)</b>	Corrosion, Skull and crossbones, Health hazard, Environment



<b>Precautionary Statement - Prevention</b>	P234 Keep only in original packaging. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash hands and face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
<b>Precautionary Statement - Response</b>	P390 Absorb spillage to prevent material damage. P391 Collect spillage. P302+P352 IF ON SKIN: Wash with plenty of water. P312 Call a POISON CENTER/doctor if you feel unwell. P361+P364 Take off immediately all contaminated clothing and wash it before reuse. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330 Rinse mouth.

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<b>Precautionary Statement – Storage</b>	P314 Get medical advice/attention if you feel unwell. P406 Store in a corrosion resistant container with a resistant inner liner. P405 Store locked up.
<b>Precautionary Statement – Disposal</b>	P501 Dispose of contents/container to an approved landfill.

### Section 3 - Composition and Information on Ingredients

<b>Chemical Characterization</b>	Liquid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Chlormequat chloride	999-81-5	750g/L

### Section 4 - First Aid Measures

<b>First-aid Measures</b>	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.
<b>Inhalation</b>	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
<b>Skin</b>	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
<b>Eye</b>	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance. Remove contact lenses, if present and easy to do.
<b>First-aid Facilities</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
<b>Advice to Doctor</b>	Symptoms may include breathing difficulties and clonic-tonic (epileptic) spasms. No specific antidote, symptomatic treatment.

### Section 5 - Firefighting Measures

<b>Suitable Extinguishing Media</b>	Water fog, foam, carbon dioxide or dry chemical.
<b>Hazards from Combustion Products</b>	If involved in a fire, it may emit hydrochloric acid, chloride, nitrogen oxides and carbon monoxide may be formed.
<b>Special protective equipment for fire-fighters</b>	Full protective clothing and self-contained breathing apparatus.
<b>Specific Methods</b>	Keep up wind. Do not allow washings to reach sewage or effluent systems.
<b>Specific hazards arising from the chemical</b>	Do not use high volume water jet extinguishers.
<b>Hazchem Code</b>	2X
<b>Decomposition Temperature</b>	Information is not available.
<b>Other Information</b>	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

### Section 6 - Accidental Release Measures

<b>Emergency Procedures</b>	
<b>Spills and Disposal</b>	Wear protective clothing. Clear area of unprotected personnel. Contain spill

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and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.

**Personal Protection** For appropriate personal protective equipment (PPE), refer Section 8.

**Environmental Precautions** Prevent from entering drains, waterways or sewers.

## Section 7 - Handling and Storage

**Precautions for Safe Handling** It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017. Avoid skin and eye contact and inhalation of spray mist.

This product must not be applied onto or into water.

Do not carry more than 1L of this product on a passenger service vehicle.

CERTIFIED HANDLER: Is not required.

TRACKING: Is not required.

RESTRICTED TO WORKPLACE : A person may use and store the substance only in a workplace.

A person may supply the substance only to:

(a) a workplace under the management and control of a PCBU, and only if the person has received written notification that a competent person at the workplace will accept responsibility for the substance; or

(b) an authorised person, if the person has received written notification that the authorised person will accept responsibility for the substance.

RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept.

A person who supplies the substance must retain the following written records for 12 months from the date of transfer of the substance:

(a) the product name or chemical name of the substance transferred; and

(b) the identity and address of the competent person or authorised person that received the transferred substance; and

(c) the date on which the transfer occurred; and

(d) a copy of the notification.

A competent person means:

(a) a certified handler; or

(b) a person who has received information, instruction, and training in accordance with regulation 4.5.

An authorised person means a person who holds a permission granted by the Authority under section 95A of the Act to use the substance in a place that is not a workplace.

**Conditions for safe storage, including any incompatibilities** Keep out of reach of children.

Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs. Storage must be in accordance with NZS 8409 Management of Agrichemicals.

Stores containing 100L of STABILAN 750SL require secondary containment, more than 100L require emergency response plans and 1,000L require signage.

**Other Information** Aggregate Storage Volume Thresholds:

When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

## Section 8 - Exposure Controls and Personal Protection

**Occupational Exposure Limits (OEL)** No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.

**Appropriate Engineering Controls** Handle in well ventilated areas, generally natural ventilation is adequate.

**Personal Protective Equipment** Avoid inhaling fumes or spray mist. When opening the container, preparing spray and using the prepared spray wear waterproof gloves, boots, and long sleeved impervious (PVC or tyvek) overalls.

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**Hygiene Measures** Do not eat, drink or smoke while using.  
Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

## Section 9 - Physical and Chemical Properties

<b>Form</b>	Liquid
<b>Appearance</b>	Light yellow liquid.
<b>Odour</b>	Amine-like.
<b>Decomposition Temperature</b>	Information is not available.
<b>Melting Point</b>	c. 235°C for chlormequat chloride.
<b>Boiling Point</b>	circa 100 °C
<b>Solubility in Water</b>	Completely miscible
<b>Specific Gravity</b>	1.14
<b>pH</b>	5 - 7
<b>Vapour Pressure</b>	<0.001mPa (25°C) for chlormequat chloride.
<b>Vapour Density (Air=1)</b>	Information is not available.
<b>Odour Threshold</b>	Information is not available.
<b>Partition Coefficient: n-octanol/water</b>	Kow logP = -1.6 (pH)
<b>Flash Point</b>	Does not flash
<b>Flammability</b>	Non flammable.
<b>Auto-ignition Temperature</b>	Information is not available.
<b>Flammable Limits - Lower</b>	Information is not available.
<b>Flammable Limits - Upper</b>	Information is not available.
<b>Oxidising Properties</b>	Not oxidising
<b>Initial Boiling Point and Boiling Range</b>	Information is not available.
<b>Kinematic Viscosity</b>	Information is not available.
<b>Particle Characteristics</b>	Information is not available.
<b>Corrosiveness</b>	Corrosive to aluminium, iron mild steel.
<b>Other Information</b>	(SL) Soluble concentrate

## Section 10 - Stability and Reactivity

<b>Chemical Stability</b>	Stable under normal conditions of handling and storage. No crystallisation at -5°C for 30 hours, No separation or crystallisation observed at 0°C for 48hours.
<b>Incompatible Materials</b>	Aluminium and its alloys. Avoid liquid fertilizers as they may cause crop scorch.
<b>Hazardous Polymerization</b>	Hazardous polymerisation will not occur.

## Section 11 - Toxicological Information

**Acute Toxicity - Oral** LD50 (female rats) = 807mg/kg for chlormequat chloride.

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<b>Acute Toxicity - Inhalation</b>	LC50 (4h) (rats) >5.2mg/L air for chlormequat chloride.
<b>Acute Toxicity - Dermal</b>	LD50 (rabbits) >2000mg/kg for chlormequat chloride.
<b>Ingestion</b>	Ingestion of larger amounts may affect the central nervous system (eg. Dizziness, headache)
<b>Skin</b>	No skin irritation (rabbit)
<b>Corrosion/Irritation</b>	
<b>Serious Eye Damage/Irritation</b>	No eye irritation (rabbit)
<b>Skin Sensitisation</b>	No sensitisation (guinea pig)
<b>Germ Cell Mutagenicity</b>	Information is not available.
<b>Carcinogenicity</b>	Information is not available.
<b>Reproductive Toxicity</b>	Information is not available.
<b>STOT - Single Exposure</b>	Information is not available.
<b>STOT - Repeated Exposure</b>	May cause damage to organs through prolonged or repeated exposure.
<b>Aspiration Hazard</b>	Information is not available.
<b>Other Information</b>	The Australian Acceptable Daily Intake (ADI) for chlormequat for a human is 0.07 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 7.5 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Aust Govt Dept. of APVMA, 'ADI List', Edition 2/2024).

## Section 12 - Ecological Information

<b>Persistence and Degradability</b>	Readily biodegradable, according to appropriate OECD test. Kow LogP = -1.59 (pH7) for chlormequat chloride
<b>Mobility</b>	Information is not available.
<b>Environmental Fate</b>	DT50 = 8 -10 days
<b>Bioaccumulative Potential</b>	Information is not available.
<b>Acute Toxicity - Fish</b>	LC50 (96h) rainbow trout >100mg/L for chlormequat chloride.
<b>Acute Toxicity - Daphnia</b>	LC50 (48h) 31.7mg/L for chlormequat chloride.
<b>Acute Toxicity - Algae</b>	EC50 (72h) Pseudokirchneriella subcapitata >100mg/L for chlormequat chloride.
<b>Acute Toxicity - Other Organisms</b>	Birds: LD50 for Japanese quail 441mg/kg for chlormequat chloride. Bees: Non-toxic to bees for chlormequat chloride. Worms: LC50(14d) 2111mg/kg soil for chlormequat chloride.
<b>Sewage Treatment</b>	Disturbance in waste water clarifying plant is not expected.

## Section 13 - Disposal Considerations

<b>Product Disposal</b>	Dispose of product only by using according to the label, or at an approved landfill.
<b>Container Disposal</b>	Triple rinse empty container and add rinsate to the spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

## Section 14 - Transport Information

<b>Transport Information</b>	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
<b>UN Number</b>	1760

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<b>Proper Shipping Name</b>	CORROSIVE LIQUID, N.O.S. - (chlormequat-chloride)
<b>Hazard Class</b>	8
<b>Hazchem Code</b>	2X
<b>Packaging Method</b>	-
<b>Packing Group</b>	III
<b>Storage and Transport</b>	DO NOT Store or Load With Class 1, 5.1, 5.2, 7, food items, cyanides, strong acids. Segregate from Class 4.3 (in separate freight containers) and by 3 metres on the same vehicle for 4.3, 5.1, 5.2 and food items if a segregation device is used.
<b>EPG Number</b>	-
<b>IERG Number</b>	37
<b>IMO Marine Pollutant</b>	No
<b>Other Information</b>	Do not carry more than 1L of STABILAN 750SL on a passenger service vehicle. Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

## Section 15 - Regulatory Information

<b>National and or International Regulatory Information</b>	Registered pursuant to the ACVM Act 1997, No. P7292 See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000758 See <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for approval controls.
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## Section 16 - Any Other Relevant Information

<b>Date of preparation or last revision of SDS</b>	January 2023.
<b>Contact Person/Point</b>	IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE 24Hr Tollfree Emergency No: 0800 651 911 24Hr Emergency No: National Poisons Centre Phone: 0800 764 766
<b>Revisions Highlighted</b>	Various changes and updates made to the document to comply with GHS7.  ...End Of MSDS...

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