

Infosafe No™ 3NU8F	Issue Date : January 2018	APPROVED by NUFARMNZ
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Product Name **STABILAN® 750 SL**

## 1. Identification

<b>GHS 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>	6 Manu Street, Otahuhu Auckland 2024 New Zealand
<b>Telephone/Fax Number</b>	Tel: 0-9-270 4150 Fax: 0-9-270 4159
<b>Emergency phone number</b>	0800 651 911
<b>Email</b>	info@nufarm.com
<b>Recommended use of the chemical and restrictions on use</b>	A plant growth regulator for use on wheat, 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.

## 2. Hazard Identification

<b>Other Information</b>	6.1C acute toxicant, 6.9B target organ toxicant, 8.1A metallic corrosive, 9.1D aquatic toxicant, 9.3B terrestrial vertebrate toxicant, TOXICITY Toxic - may be fatal if swallowed, inhaled or absorbed through the skin. May cause organ damage from repeated oral exposure at high doses. CORROSIVE Warning - this product may be corrosive to metal. ECOTOXIC Harmful to aquatic organisms. Toxic to terrestrial vertebrates.
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## 3. Composition/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

## 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 contact</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.

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## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog, foam, carbon dioxide or dry chemical.
<b>Hazards from Combustion</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>Other Information</b>	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

## 6. Accidental release measures

<b>Emergency Procedures</b>	
<b>Spills &amp; Disposal</b>	Wear protective clothing. Clear area of unprotected personnel. Contain spill 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.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	Prevent from entering drains, waterways or sewers.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: This product must be under the control of an approved handler or secured unless it is being transported by a person with a current dangerous goods endorsement on their drivers licence. TRACKING: Location and movement of this product must be recorded at each stage of its lifecycle. RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals, must be kept for 3 years. Do not apply onto or into water.
<b>Conditions for safe storage, including any incompatibilities</b>	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.
<b>Other Information</b>	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.

## 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.
<b>Appropriate engineering controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Personal Protective Equipment</b>	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.
<b>Hygiene Measures</b>	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.

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## 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>Appearance</b>	Light yellow liquid
<b>Odour</b>	Amine-like
<b>Melting Point</b>	Not applicable
<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>	Active ingredient is an organic salt. Vapour pressure is negligible.
<b>Partition Coefficient: n-octanol/water</b>	log Pow = -1.6 (pH)
<b>Flash Point</b>	Does not flash
<b>Flammability</b>	Non flammable.
<b>Oxidising Properties</b>	Not oxidising
<b>Other Information</b>	(SL) Soluble concentrate Corrosive to aluminium, iron mild steel.

## 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.

## 11. Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 (rat) = 807mg/kg for chlormequat chloride
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) = >2000mg/kg for chlormequat chloride
<b>Acute Toxicity - Inhalation</b>	LC50 (4h) (rat) = >5.2mg/L for chlormequat chloride
<b>Ingestion</b>	Ingestion of larger amounts may affect the central nervous system (eg. Dizziness, headache)
<b>Skin Sensitisation</b>	No sensitisation (guinea pig)
<b>Serious eye damage/irritation</b>	No eye irritation (rabbit)
<b>Skin corrosion/irritation</b>	No skin irritation (rabbit)
<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: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', December 2014).

## 12. Ecological information

<b>Persistence and degradability</b>	Readily biodegradable, according to appropriate OECD test. LogP = -1.59 (pH7) for chlormequat chloride
<b>Mobility</b>	DT50 = 8 -10 days
<b>Acute Toxicity - Fish</b>	LC50 (96hr) for rainbow trout is >100mg/l mg/l
<b>Acute Toxicity - Daphnia</b>	EC50 (48h) = 31.7mg/L for chlormequat chloride

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<b>Acute Toxicity - Algae</b>	LC50 (72h) Pseudokirchneriella subcapitata = >100mg/l
<b>Acute Toxicity - Other Organisms</b>	Not toxic to bees LD50 pheasant = 261mg/kg for chlormequat chloride LC50 (14d) worms = 2111mg/kg soil
<b>Sewage Treatment</b>	Disturbance in waste water clarifying plant is not expected.
<b>Other Information</b>	Ecological injuries are not known or expected under normal use.

### 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.

### 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>U.N. Number</b>	1760
<b>UN proper shipping name</b>	CORROSIVE LIQUID, N.O.S. - (chlormequat-chloride, 75%)
<b>Transport hazard class(es)</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.

### 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.
<b>Packaging &amp; Labelling</b>	TOXIC * CORROSIVE * ECOTOXIC - Keep out of reach of children
<b>Hazard Rating Systems</b>	NFPA/HMIS: 2-1-1

### 16. Other Information

<b>Date of preparation or last revision of SDS</b>	February 2013
<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>	5 yearly review carried out. Various updates made to the document. ...End Of MSDS...



# Safety Data Sheet

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