

Infosafe No™ 3NU8F Issue Date : January 2018 APPROVED by NUFARMNZ

Product Name **STABILAN® 750 SL**

1. Identification

GHS Product Identifier	STABILAN® 750 SL
Product Code	04590
Product Type	Plant Growth Regulator
Company Name	Nufarm NZ
Address	6 Manu Street, Otahuhu Auckland 2024 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150 Fax: 0-9-270 4159
Emergency phone number	0800 651 911
Email	info@nufarm.com
Recommended use of the chemical and restrictions on use	A plant growth regulator for use on wheat, oats and perennial ryegrass seed crops.
Other Information	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

Other Information	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.
--------------------------	---

3. Composition/information on ingredients

Chemical Characterization	Liquid						
Ingredients	<table border="0"> <thead> <tr> <th><u>Name</u></th> <th><u>CAS</u></th> <th><u>Proportion</u></th> </tr> </thead> <tbody> <tr> <td>Chlormequat chloride</td> <td>999-81-5</td> <td>750g/L</td> </tr> </tbody> </table>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	Chlormequat chloride	999-81-5	750g/L
<u>Name</u>	<u>CAS</u>	<u>Proportion</u>					
Chlormequat chloride	999-81-5	750g/L					

4. First-aid measures

First Aid Measures	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.
Inhalation	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.
Ingestion	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.
Skin	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.
Eye contact	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.
First Aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Advice to Doctor	Symptoms may include breathing difficulties and clonic-tonic (epileptic) spasms. No specific antidote, symptomatic treatment.

Infosafe No™ 3NU8F	Issue Date : January 2018	APPROVED by NUFARMNZ
--------------------	---------------------------	----------------------

Product Name **STABILAN® 750 SL**

5. Fire-fighting measures

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

6. Accidental release measures

Emergency Procedures	
Spills & Disposal	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.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent from entering drains, waterways or sewers.

7. Handling and storage

Precautions for Safe Handling	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.
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.

8. Exposure controls/personal protection

Occupational exposure limit values	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.
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.

Infosafe No™ 3NU8F	Issue Date : January 2018	APPROVED by NUFARMNZ
--------------------	---------------------------	----------------------

 Product Name **STABILAN® 750 SL**

9. Physical and chemical properties

Form	Liquid
Appearance	Light yellow liquid
Odour	Amine-like
Melting Point	Not applicable
Boiling Point	circa 100 °C
Solubility in Water	Completely miscible
Specific Gravity	1.14
pH	5 - 7
Vapour Pressure	Active ingredient is an organic salt. Vapour pressure is negligible.
Partition Coefficient: n-octanol/water	log Pow = -1.6 (pH)
Flash Point	Does not flash
Flammability	Non flammable.
Oxidising Properties	Not oxidising
Other Information	(SL) Soluble concentrate Corrosive to aluminium, iron mild steel.

10. Stability and reactivity

Chemical Stability	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.
Incompatible Materials	Aluminium and its alloys. Avoid liquid fertilizers as they may cause crop scorch.
Hazardous Polymerization	Hazardous polymerisation will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat) = 807mg/kg for chlormequat chloride
Acute Toxicity - Dermal	LD50 (rabbit) = >2000mg/kg for chlormequat chloride
Acute Toxicity - Inhalation	LC50 (4h) (rat) = >5.2mg/L for chlormequat chloride
Ingestion	Ingestion of larger amounts may affect the central nervous system (eg. Dizziness, headache)
Skin Sensitisation	No sensitisation (guinea pig)
Serious eye damage/irritation	No eye irritation (rabbit)
Skin corrosion/irritation	No skin irritation (rabbit)
Other Information	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

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

Infosafe No™ 3NU8F	Issue Date : January 2018	APPROVED by NUFARMNZ
--------------------	---------------------------	----------------------

Product Name **STABILAN® 750 SL**

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

13. Disposal considerations

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
Container Disposal	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

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
U.N. Number	1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. - (chlormequat-chloride, 75%)
Transport hazard class(es)	8
Hazchem Code	2X
Packaging Method	-
Packing Group	III
Storage and Transport	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.
EPG Number	-
IERG Number	37
IMO Marine Pollutant	No
Other Information	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

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P7292 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000758 See www.epa.govt.nz for approval controls.
Packaging & Labelling	TOXIC * CORROSIVE * ECOTOXIC - Keep out of reach of children
Hazard Rating Systems	NFPA/HMIS: 2-1-1

16. Other Information

Date of preparation or last revision of SDS	February 2013
Contact Person/Point	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
Revisions Highlighted	5 yearly review carried out. Various updates made to the document. ...End Of MSDS...



Safety Data Sheet

infosafe
CS: 1.7.2

Page: 5 of 5

Infosafe No™ 3NU8F	Issue Date : January 2018	APPROVED by NUFARMNZ
--------------------	---------------------------	----------------------

Product Name **STABILAN® 750 SL**

© Copyright ACOHS Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd. The compilation of MSDS's displayed is the intellectual property of Acohs Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Acohs Pty Ltd.