

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

CA Code (Nufarm)	: 1933
Product code	: NLI1009;R765A
Oracle Recipe Code (Nufarm)	: 600000176
Item codes	: 100009507
Product form	: Mixture
Trade name	: Stabilan 750
Type (Nufarm)	: Country Specific
Country (Nufarm)	: United Kingdom

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category	: Professional use
Use of the substance/mixture	: Plant growth regulator

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor

Nufarm UK Limited
Wyke Lane
Wyke
BD12 9EJ Bradford - UK
T +44 (0)1274 691234 - F +44 (0) 1274691176
infouk@uk.nufarm.com

1.4. Emergency telephone number

Emergency number : +44 (0)1274 696603

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Corrosive to metals, Category 1	H290
Acute toxicity (oral), Category 4	H302
Acute toxicity (dermal), Category 4	H312
Hazardous to the aquatic environment —	H412
Chronic Hazard, Category 3	

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

May be corrosive to metals. Harmful if swallowed or in contact with skin. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP)	: Warning
Hazardous ingredients	: Chlormequat chloride
Hazard statements (CLP)	: H290 - May be corrosive to metals. H302+H312 - Harmful if swallowed or in contact with skin H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P234 - Keep only in original container. P262 - Do not get in eyes, on skin, or on clothing. P270 - Do not eat, drink or smoke when using this product.

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	P280 - Wear protective clothing, eye protection, face protection, protective gloves. P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P330 - Rinse mouth. P363 - Wash contaminated clothing before reuse. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation
EUH-statements	: EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
CHLORMEQUAT CHLORIDE (ISO)	(CAS-No.) 999-81-5 (EC-No.) 213-666-4 (EC Index-No.) 007-003-00-6	65.9	Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician.
First-aid measures after skin contact	: Take off contaminated clothing and wash it before reuse. Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period while holding the eyelids wide open. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Nausea. Vomiting. Sweating. Diarrhea. Salivation. Cardiac disorders. Unconsciousness. Visual disturbances.
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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Sand. Foam. Carbon dioxide.
Unsuitable extinguishing media	: high volume water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Hydrogen chloride. Chlorine. Nitrogen oxides. Carbon monoxide.
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5.3. Advice for firefighters

Protection during firefighting	: Use self-contained breathing apparatus and chemically protective clothing.
Other information	: Exercise caution when fighting any chemical fire. Contain the spreading of extinguishing fluids (this product may be hazardous for the environment). Do not discharge into drains or the environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Wear personal protective equipment. Refer to chapter 8.
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6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Mechanically recover the product.

Other information : Never return spills in original containers for possible later re-use.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Keep out of the reach of children.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store at room temperature. Store in original container.

Storage temperature : > 0 °C

Information on mixed storage : Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Materials for protective clothing:

Keep away from food and drink. According to the conditions of use, protective gloves, apron, boots, head and face protection must be worn

Hand protection:

Wear gloves according to EN374 resistant to the solvent(s) in use.

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR)	6 (> 480 minutes)	0.4		EN 374
	Chloroprene rubber (CR)	6 (> 480 minutes)	0.5mm		EN 374
	Butyl rubber	6 (> 480 minutes)	0.7		EN 374

Eye protection:

Safety glasses with side shields. EN 166

Skin and body protection:

According to the conditions of use, protective gloves, apron, boots, head and face protection must be worn

Type	Standard
	EN 14605, EN ISO 13982

Respiratory protection:

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used



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Other information:

Wash contaminated clothing before reuse. Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuffs. Keep work clothing separately. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: light yellow.
Odour	: Amine-like.
Odour threshold	: No data available
pH	: 5.3
pH solution concentration	: 11.38 g/l
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: ≈ 100 °C 1013 hPa; Aqueous solution
Flash point	: > 100 °C
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: < 0.001 mPa @ 20°C (Chlormequat chlorid)
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.138 g/cm ³ @ 20°C
Solubility	: Water: completely miscible
Log Pow	: -1.6 (pH7)
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 22 mPa·s @ 20°C
Viscosity, dynamic	: 15 mPa·s @ 40°C
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.
Lower explosive limit (LEL)	: Not applicable
Upper explosive limit (UEL)	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Aluminium and its alloys.

10.6. Hazardous decomposition products

Avoid temperature above 150 °C

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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Stabilan 750	
LD50 oral rat	≈ 600 mg/kg
LD50 dermal rabbit	1250 mg/kg
LC50 inhalation rat (mg/l)	> 0.709 mg/l/4h

Acute toxicity (oral)	: Oral: Harmful if swallowed.
Acute toxicity (dermal)	: Dermal: Harmful in contact with skin.
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified (No skin irritation) pH: 5.3
Additional information	: rabbit
Serious eye damage/irritation	: Not classified (No eye irritation) pH: 5.3
Additional information	: rabbit
Respiratory or skin sensitisation	: Not classified (Did not cause sensitisation)
Additional information	: Guinea pig
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

Stabilan 750	
Viscosity, kinematic	19.33216169 mm ² /s

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Harmful to aquatic life with long lasting effects.

Stabilan 750	
LC50 96h fish	652 mg/l
EC50 other aquatic organisms 1	≈ 379 mg/l Daphnia ; 3d
EC50 72h algae	652 mg/l
ErC50 (algae)	> 100 mg/l <i>Desmodesmus subspicatus</i> (green algae)
NOEC (chronic)	2.4 mg/l <i>Daphnia magna</i> (Water flea)
NOEC chronic fish	43.1 mg/l <i>Oncorhynchus mykiss</i> (Rainbow trout)
NOEC chronic algae	> 100 mg/l <i>Desmodesmus subspicatus</i> (green algae)

Additional ecotoxicological information

Toxicity to bees; Not toxic

72 h EbC50 *Lemna Gibba* 5.3mg/l

12.2. Persistence and degradability

Stabilan 750	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Stabilan 750	
Log Pow	-1.6 (pH7)
Bioaccumulative potential	Bioaccumulation unlikely.

12.4. Mobility in soil

Stabilan 750	
Koc	61 (≥ 282) (chlormequat chloride)

12.5. Results of PBT and vPvB assessment

Stabilan 750	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	

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12.6. Other adverse effects

No additional information available




SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.
 Waste treatment methods : Dispose as hazardous waste. Do not remove as household garbage. Dispose of at authorized waste collection point.
 Product/Packaging disposal recommendations : Do not re-use empty containers. Do not dispose of the packaging without first carrying out the necessary cleaning.
 European List of Waste (LoW) code : 02 01 08* - agrochemical waste containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA
14.1. UN number		
1760	1760	1760
14.2. UN proper shipping name		
CORROSIVE LIQUID, N.O.S. (Chlormequat Chloride)	CORROSIVE LIQUID, N.O.S. (Chlormequat ChlorideChlormequat ChlorideChlormequat Chloride)	Corrosive liquid, n.o.s. (Chlormequat Chloride)
Transport document description		
UN 1760 CORROSIVE LIQUID, N.O.S. (Chlormequat Chloride), 8, III, (E)	UN 1760 CORROSIVE LIQUID, N.O.S. (Chlormequat ChlorideChlormequat Chloride), 8, III	UN 1760 Corrosive liquid, n.o.s. (Chlormequat Chloride), 8, III
14.3. Transport hazard class(es)		
8	8	8
		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
No supplementary information available		

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : C9
 Special provisions (ADR) : 274
 Limited quantities (ADR) : 5I
 Excepted quantities (ADR) : E1
 Packing instructions (ADR) : P001, IBC03, LP01, R001
 Mixed packing provisions (ADR) : MP19
 Portable tank and bulk container instructions (ADR) : T7
 Portable tank and bulk container special provisions (ADR) : TP1, TP28
 Tank code (ADR) : L4BN
 Vehicle for tank carriage : AT
 Transport category (ADR) : 3
 Special provisions for carriage - Packages (ADR) : V12
 Hazard identification number (Kemler No.) : 80

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Orange plates :

80
1760

Tunnel restriction code (ADR) : E
EAC code : 2X
APP code : B

- Transport by sea

Special provisions (IMDG) : 223, 274
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T7
Tank special provisions (IMDG) : TP1, TP28
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B
Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW2
Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes.

- Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y841
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 852
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 856
CAO max net quantity (IATA) : 60L
Special provisions (IATA) : A3, A803
ERG code (IATA) : 8L

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

Other information, restriction and prohibition regulations : WGK Germany: 2 - Hazard to waters.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

None

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
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Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Met. Corr. 1	Corrosive to metals, Category 1
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H412	Harmful to aquatic life with long lasting effects.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

NUFARM SDS TEMPLATE

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product