Stabilan 750

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 08/11/2018 Revision date: 01/10/2024 Supersedes version of: 25/09/2024 Version: 4.2

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

1.1. Product identifier

Trade name	:	Stabilan 750
Product form	:	Mixture
Type (Nufarm)	:	Country Specific
Country (Nufarm)	:	United Kingdom
CA Code (Nufarm)	:	1933
Product code	:	NLI1009NC;R765ANC
Oracle Recipe Code (Nufarm)	:	600000176
Item codes	:	100009507;110005685;110005684
UFI	:	X2EX-7J4W-6DA7-EJNE

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

Supplier
Nufarm UK Limited
Wyke Lane, Bradford
Wyke
BD12 9EJ Bradford - UK
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infouk@uk.nufarm.com

Supplier
Nufarm GmbH & Co KG
St.-Peter-Str. 25
4021 Linz - Austria
T +43/732/6918-3187 - F +43/732/6918-63187
Katharina.Krueger@nufarm.com

Supplier
Nufarm S.A.S
Immeuble WEST PLAZA
11 rue du dédarcadère
COLOMBES - France
T +33 140 85 50 50 - F +33 147 92 25 45

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 – Chronic Hazard, Category 3	H412

Full text of H- and EUH-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) :



GHS07

Signal word (CLP) : Warning

Contains : 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.
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
The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

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- and EUH-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.

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.

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.

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

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:
Minimise exposure using measures such as contained and enclosed systems, properly designed and maintained dedicated facilities and suitable general/local exhaust ventilation.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:			
Type	**Field of application**	**Characteristics**	**Standard**

8.2.2.2. Skin protection

Skin and body protection:	
According to the conditions of use, protective gloves, apron, boots, head and face protection must be worn. EN 14605	
Type	**Standard**
	EN 14605, EN ISO 13982

Hand protection:
Wear suitable gloves resistant to chemical penetration

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

Other skin protection **Materials for protective clothing:**		
Condition	**Material**	**Standard**
According to the conditions of use, protective gloves, apron, boots, head and face protection must be worn		EN 14605

8.2.2.3. Respiratory protection

Respiratory protection:			
Users are advised to consider national Occupational Exposure Limits or other equivalent values. Ensure exposure is below occupational exposure limits (where available).			
Device	**Filter type**	**Condition**	**Standard**
respirator with combination filter for vapour/particles	ABEK	In case of inadequate ventilation wear respiratory protection.	EN 14387

8.2.2.4. Thermal hazards
No additional information available

8.2.3. Environmental exposure controls

Other information:
Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke during use. Keep away from children. Remove contaminated clothing. Separate working clothes from town clothes. Wash contaminated clothing before reuse. Wash hands immediately after handling the product. The wearing of PPE will have to be adapted to working conditions and any discomfort felt during the operation.

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	:	Not available
Melting point	:	Not available
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Not available
Explosive properties	:	Not explosive.
Oxidising properties	:	Non oxidizing.
Explosive limits	:	Not available
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Flash point	:	> 100 °C
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not available
pH	:	6.11
pH solution concentration	:	1 %
Viscosity, kinematic	:	Not available
Viscosity, dynamic	:	15 mPa·s @ 40°C

Solubility	:	completely miscible.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	1.138 g/cm³ @ 20°C
Relative density	:	Not available
Relative vapour density at 20°C	:	Not available
Particle size	:	Not applicable
Particle size distribution	:	Not applicable
Particle shape	:	Not applicable
Particle aspect ratio	:	Not applicable
Particle aggregation state	:	Not applicable
Particle agglomeration state	:	Not applicable
Particle specific surface area	:	Not applicable
Particle dustiness	:	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	:	Harmful if swallowed.
Acute toxicity (dermal)	:	Harmful in contact with skin.
Acute toxicity (inhalation)	:	Not classified

Stabilan 750	
LD50 oral rat	≈ 600 mg/kg
LD50 dermal rabbit	1250 mg/kg

LC50 Inhalation - Rat	> 0.709 mg/l/4h

CHLORMEQUAT CHLORIDE (ISO) (999-81-5)	
LC50 Inhalation - Rat	> 5.2 mg/l/4h

Skin corrosion/irritation : Not classified (No skin irritation) (No skin irritation)
pH: 6.11
Additional information : rabbit
Serious eye damage/irritation : Not classified (No eye irritation) (No eye irritation)
pH: 6.11
Additional information : rabbit
Respiratory or skin sensitisation : Not classified (Did not cause sensitisation) (Did not cause sensitisation)
Additional information : Guinea pig
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met) (Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met) (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met) (Based on available data, the classification criteria are not met)

CHLORMEQUAT CHLORIDE (ISO) (999-81-5)	
NOAEL (animal/male, F0/P)	75 mg/kg Parental
NOAEL (animal/female, F0/P)	74 mg/kg Reproduction
NOAEL (animal/male, F1)	41 mg/kg offspring

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short–term (acute) : Not classified
Hazardous to the aquatic environment, long–term (chronic) : Harmful to aquatic life with long lasting effects.

Stabilan 750	
LC50 96h fish	652 mg/l
EC50 - Other aquatic organisms [1]	≈ 379 mg/l Dapnia ; 3d
EC50 72h algae	652 mg/l
Additional ecotoxicological information	
Toxicity to bees; Not toxic 72 h EbC50 Lemna Gibba 5.3mg/l	

CHLORMEQUAT CHLORIDE (ISO) (999-81-5)	
LC50 96h fish	> 100 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 48h crustacea	31.7 mg/l Daphnia magna (Water flea)
EC50 72h algae	> 100 mg/l Pseudokirchneriella subcapitata (microalgae)
ErC50 other aquatic plants	28 mg/l Lemna gibba (gibbous duckweed)
NOEC (chronic)	≥ 0.1 mg/l Lemna gibba (gibbous duckweed)
NOEC chronic fish	43.1 mg/l Pimephales promelas (Fathead Minnow)
NOEC chronic crustacea	2.4 mg/l Daphnia magna (Water flea); 21 d
NOEC chronic algae	> 100 mg/l Scenedesmus subspicatus
Additional ecotoxicological information	
Earthworm toxicity (Eisenia fetida): NOEC 681 mg/kg soil Acute tox 320 mg/kg soil Bee toxicity (honeybee): > 80.2 µg/bee (oral) > 65.2 µg/bee (contact)	

12.2. Persistence and degradability

Stabilan 750	
Persistence and degradability	Readily biodegradable.

CHLORMEQUAT CHLORIDE (ISO) (999-81-5)	
Persistence and degradability	Readily biodegradable.
DT50	17 – 31.6 days

12.3. Bioaccumulative potential

Stabilan 750	
Bioaccumulative potential	Bioaccumulation unlikely.

CHLORMEQUAT CHLORIDE (ISO) (999-81-5)	
Partition coefficient n-octanol/water (Log Pow)	-3.39
Bioaccumulative potential	No bioaccumulation.

12.4. Mobility in soil

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

CHLORMEQUAT CHLORIDE (ISO) (999-81-5)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	-3

12.5. Results of PBT and vPvB assessment

Stabilan 750

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

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation : 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, EC 2000/532) : 02 01 08* - agrochemical waste containing dangerous substances

SECTION 14: Transport information

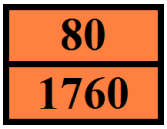
In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 1760	UN 1760	UN 1760	UN 1760	UN 1760
14.2. UN proper shipping name				
CORROSIVE LIQUID, N.O.S. (Chlormequat Chloride)	CORROSIVE LIQUID, N.O.S. (Chlormequat Chloride)	Corrosive liquid, n.o.s. (Chlormequat Chloride)	CORROSIVE LIQUID, N.O.S. (Chlormequat Chloride)	CORROSIVE LIQUID, N.O.S. (Chlormequat Chloride)
Transport document description (ADR)				
UN 1760 CORROSIVE LIQUID, N.O.S. (Chlormequat Chloride), 8, III, (E)	UN 1760 CORROSIVE LIQUID, N.O.S. (Chlormequat Chloride), 8, III	UN 1760 Corrosive liquid, n.o.s. (Chlormequat Chloride), 8, III	UN 1760 CORROSIVE LIQUID, N.O.S. (Chlormequat Chloride), 8, III	UN 1760 CORROSIVE LIQUID, N.O.S. (Chlormequat Chloride), 8, III
14.3. Transport hazard class(es)				
8	8	8	8	8
				
14.4. Packing group				
III	III	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	Dangerous for the environment : 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)	:	5l
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
Orange plates	:	
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

Inland waterway transport

Classification code (ADN)	:	C9
Special provisions (ADN)	:	274
Limited quantities (ADN)	:	5 L
Excepted quantities (ADN)	:	E1
Carriage permitted (ADN)	:	T
Equipment required (ADN)	:	PP, EP
Number of blue cones/lights (ADN)	:	0

Rail transport

Classification code (RID)	:	C9
Special provisions (RID)	:	274
Excepted quantities (RID)	:	E1

Packing instructions (RID)	:	P001, IBC03, LP01, R001
Mixed packing provisions (RID)	:	MP19
Portable tank and bulk container instructions (RID)	:	T7
Portable tank and bulk container special provisions (RID)	:	TP1, TP28
Tank codes for RID tanks (RID)	:	L4BN
Transport category (RID)	:	3
Special provisions for carriage – Packages (RID)	:	W12
Colis express (express parcels) (RID)	:	CE8
Hazard identification number (RID)	:	80

14.7. Maritime transport in bulk according to IMO instruments

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 substance(s) listed on REACH Annex XVII (Restriction Conditions)
Contains no substance(s) listed on the REACH Candidate List
Contains no substance(s) listed on REACH Annex XIV (Authorisation List)
Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)
Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

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
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.
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.
Met. Corr. 1	Corrosive to metals, Category 1

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.