

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

1.1. Product identifier

CA Code (Nufarm)	: 2832
Product code	: NLI1061
Oracle Recipe Code (Nufarm)	: 600000194
Item codes	: 100000678
Product form	: Mixture
Trade name	: COMPACT SL
Type (Nufarm)	: Country Specific
Country (Nufarm)	: Israel

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

1.2.1. Relevant identified uses

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

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor

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

1.4. Emergency telephone number

Emergency number	: +43/732/6914-2466 (Produktionsstandort Linz/Österreich) +43/1/4064343 (VergiftungsInformationsZentrale)
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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

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Warning

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) :

P102 - Keep out of reach of children.
P234 - Keep only in original container.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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	P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. P302+P352 - IF ON SKIN: Wash with plenty of 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

This substance/mixture does not meet the vPvB 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	37.4	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	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
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

Additional information : Country Specific

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.

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

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

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 : 2.5 - 8
pH solution concentration : 20 g/l
Relative evaporation rate (butylacetate=1) : No data available
Melting point : No data available

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Freezing point	: < -5 °C Start of Crystallisation
Boiling point	: ≈ 100 °C
Flash point	: None
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: < 0.001 mPa @ 20C° (Chlormequat chlorid)
Relative vapour density at 20 °C	: No data available
Relative density	: 1.072 (20°C)
Solubility	: Water: completely miscible
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

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

No additional information available

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

COMPACT SL	
LD50 oral rat	1000 mg/kg calculated
LD50 dermal rat	> 4000 mg/kg
LD50 dermal rabbit	1708
LC50 inhalation rat (mg/l)	> 5.2 mg/l/4h (Chlormequat chloride)

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: 2.5 - 8
Additional information	: rabbit
Serious eye damage/irritation	: Not classified (No eye irritation) pH: 2.5 - 8
Additional information	: rabbit
Respiratory or skin sensitisation	: Not classified (Did not cause sensitisation)
Additional information	: Guinea pig
Germ cell mutagenicity	: Not classified

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Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

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

COMPACT SL	
LC50 96h fish	> 100 mg/l <i>Oncorhynchus mykiss</i> (Rainbow trout)
LC50 other aquatic organisms 1	> mg/l
EC50 48h crustacea	31.7 mg/l <i>Daphnia magna</i> (Water flea)
EC50 72h algae	> 100 mg/l <i>Pseudokirchneriella subcapitata</i> (green algae)
ErC50 (algae)	28 mg/l <i>Lemna gibba</i> (Duckweed) (CCC)
ErC50 (other aquatic plants)	> 100 mg/l <i>Pseudokirchneriella subcapitata</i> (green algae) (CCC)
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>Scenedesmus subspicatus</i>

12.2. Persistence and degradability

COMPACT SL	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

COMPACT SL	
Bioaccumulative potential	Bioaccumulation unlikely.

12.4. Mobility in soil

COMPACT SL	
Koc	61 (≥ 282) (chlormequat chloride)

12.5. Results of PBT and vPvB assessment

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

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 Chloride)	Corrosive liquid, n.o.s. (Chlormequat Chloride)
Transport document description (ADR)		
UN 1760 CORROSIVE LIQUID, N.O.S.	UN 1760 CORROSIVE LIQUID, N.O.S.	UN 1760 Corrosive liquid, n.o.s. (Chlormequat

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ADR	IMDG	IATA
(Chlormequat Chloride), 8, III, (E)	(Chlormequat Chloride), 8, III	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
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

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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

Germany

VwVwS Annex reference : Water hazard class (WGK) 2, Significantly hazardous to water (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

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
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.

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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.