

**Trade name:** GRO-STOP ELECTRO**Product no.:** CE 001 C0067 UK**Current version :** 1.1.1, issued: 20.06.2019**Replaced version:** 1.1.0, issued: 28.03.2019**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

**GRO-STOP ELECTRO****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Sprout inhibitor for potatoes

Plant protection product for professional use. Agriculture.

**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**

Certis Europe (GB)

Suite 5, 3 Riverside

Granta Park - Great Abington

Cambridgeshire CB21 6AD

United Kingdom

Telephone no. +44 (0) 1223 894 261

Fax no. +44 (0)1223 891210

e-mail [info@certiseurope.co.uk](mailto:info@certiseurope.co.uk) - [www.certiseurope.co.uk](http://www.certiseurope.co.uk)**Advice on Safety Data Sheet**[certis@certiseurope.co.uk](mailto:certis@certiseurope.co.uk)**1.4 Emergency telephone number**

Carechem 24 GB +44 870 190 6777

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Acute Tox. 4; H332

Aquatic Chronic 2; H411

Carc. 2; H351

Eye Irrit. 2; H319

Skin Sens. 1; H317

STOT RE 2; H373

**Classification information**

Classification and labelling are based on toxicological studies performed on the product (mixture).

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS07



GHS08



GHS09

**Signal word**

Warning

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eugenol**Hazard statement(s)**

H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H351 Suspected of causing cancer  
 H373 May cause damage to organs through prolonged or repeated exposure  
 H411 Toxic to aquatic life with long lasting effects.

**Hazard statements (EU)**

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

**Precautionary statement(s)**

P201 Obtain special instructions before use.  
 P261 Avoid breathing spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P363 Wash contaminated clothing before reuse.  
 P501 Dispose of contents/ container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty clean containers which can be disposed of as non-hazardous waste.

**2.3 Other hazards**

No data available.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	<b>chlorpropham</b>		
	101-21-3 202-925-7 006-096-00-0 -	Aquatic Chronic 2; H411 Carc. 2; H351 STOT RE 2*; H373**	>= 50.00 - < 70.00 % -b.w.
2	<b>eugenol</b>		
	97-53-0 202-589-1 - -	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 25.00 - < 50.00 % -b.w.
3	<b>Dodecan-1-ol, ethoxylated</b>		
	9002-92-0 500-002-6 - -	Aquatic Chronic 3; H412 Acute Tox. 4; H302 Eye Dam. 1; H318	>= 5.00 - < 10.00 % -b.w.

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(\*, \*\*, \*\*\*, \*\*\*\*) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

No special measures necessary. In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes and launder thoroughly before reusing.

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Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air.

**After skin contact**

When in contact with the skin, clean with soap and water.

**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

**After ingestion**

Call a doctor immediately and show label or packaging. Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

**4.2 Most important symptoms and effects, both acute and delayed****Effects**

Product is a (weak) cholinesterase inhibitor.

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam; Carbon dioxide; Extinguishing powder; Water spray jet

**Unsuitable extinguishing media**

High power water jet

**5.2 Special hazards arising from the substance or mixture**

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Toxic gases/vapours

**5.3 Advice for firefighters**

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Wear protective clothing. Cool endangered containers with water spray jet. Use self-contained breathing apparatus.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not uncontrolled discharge into the subsoil/soil.

**6.3 Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). When picked up, treat material as prescribed under heading "Disposal considerations".

**6.4 Reference to other sections**

Information regarding waste disposal, see chapter 13. Information regarding personal protective measures, see chapter 8. Information regarding safe handling, see chapter 7.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Advice on safe handling**

No special measures necessary if stored and handled as prescribed. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

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Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Do not inhale vapours.

**Advice on protection against fire and explosion**

No special measures necessary.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place. Keep from freezing. Protect from heat and direct sunlight.

**Recommended storage temperature**

Value 1 - 45 °C

**Storage stability**

Value max. 2 year(s)

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container.

**Incompatible products**

Do not store together with foodstuffs.

**7.3 Specific end use(s)****Industry solution**

Always read the label and product information before use.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

No parameters available for monitoring.

**8.2 Exposure controls****Appropriate engineering controls**

No data available.

**Personal protective equipment****Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

**Eye / face protection**

Safety glasses (EN 166)

**Hand protection**

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material nitrile rubber

**Other**

Chemical-resistant work clothes. Rubber boots. (EN 13832-3/EN ISO 20345)

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****Form/Colour**

liquid

light yellow; dark brown

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<b>Odour</b>			
like cloves			
<b>Odour threshold</b>			
No data available			
<b>pH value</b>			
Value	6.15	-	6.6
<b>Boiling point / boiling range</b>			
No data available			
<b>Melting point / melting range</b>			
No data available			
<b>Decomposition point / decomposition range</b>			
Value	330	-	495 °C
Value			°C
<b>Flash point</b>			
Value	136		°C
<b>Auto-ignition temperature</b>			
Value	430		°C
<b>Oxidising properties</b>			
No data available			
<b>Explosive properties</b>			
The product does not have explosive properties.			
<b>Flammability (solid, gas)</b>			
No data available			
<b>Lower flammability or explosive limits</b>			
No data available			
<b>Upper flammability or explosive limits</b>			
No data available			
<b>Vapour pressure</b>			
No data available			
<b>Vapour density</b>			
No data available			
<b>Evaporation rate</b>			
No data available			
<b>Relative density</b>			
Value	1.128		
Reference temperature	20		°C
<b>Density</b>			
No data available			
<b>Solubility in water</b>			
No data available			
<b>Solubility(ies)</b>			
No data available			
<b>Partition coefficient: n-octanol/water</b>			
No	Substance name	CAS no.	EC no.
1	chlorpropham	101-21-3	202-925-7
log Pow	appr.	3.8	
<b>Viscosity</b>			
Value	58.6		mm <sup>2</sup> /s

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Type	kinematic		
Value		57.9	cP
Type	dynamic		

**9.2 Other information**

Other information
No data available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

The product is stable under normal storage and handling conditions.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

Dangerous reactions are not to be expected when handling product according to its intended use.

**10.4 Conditions to avoid**

None, if handled according to intended use.

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

In case of fire the following can be released: Toxic gases/vapours

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Acute oral toxicity			
No	Product Name		
1	GRO-STOP ELECTRO		
LD50	>	2000	mg/kg
Species	rat		
Source	Manufacturer		

Acute dermal toxicity			
No	Product Name		
1	GRO-STOP ELECTRO		
LD50	>	2000	mg/kg
Species	rat		
Source	Manufacturer		

Acute inhalational toxicity			
No	Product Name		
1	GRO-STOP ELECTRO		
LC50	>	4.67	mg/m <sup>3</sup>
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rat		
Source	Manufacturer		

Skin corrosion/irritation			
No	Product Name		
1	GRO-STOP ELECTRO		
Species	rabbit		
Source	Manufacturer		
Evaluation	non-irritant		

Serious eye damage/irritation			
No	Product Name		
1	GRO-STOP ELECTRO		

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Species	rabbit
Source	Manufacturer
Evaluation	irritant

**Respiratory or skin sensitisation**

No	Product Name
1	GRO-STOP ELECTRO
Route of exposure	Skin
Species	guinea pig
Source	Manufacturer
Evaluation	sensitizing

**Germ cell mutagenicity**

No	Product Name
1	GRO-STOP ELECTRO
Evaluation/classification	Based on available data, the classification criteria are not met (maximum achievable concentration, no mortality).

**Reproduction toxicity**

No	Product Name
1	GRO-STOP ELECTRO
Evaluation/classification	Based on available data, the classification criteria are not met (maximum achievable concentration, no mortality).

**Carcinogenicity**

No	Product Name
1	GRO-STOP ELECTRO
Source	Manufacturer
Evaluation	Suspected of causing cancer.

**STOT - single exposure**

No	Product Name
1	GRO-STOP ELECTRO
Evaluation/classification	Based on available data, the classification criteria are not met (maximum achievable concentration, no mortality).

**STOT - repeated exposure**

No	Product Name
1	GRO-STOP ELECTRO
Source	Manufacturer
Comments	May cause damage to organs through prolonged or repeated exposure

**Aspiration hazard**

Not classified
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**SECTION 12: Ecological information****12.1 Toxicity****Toxicity to fish (acute)**

No	Substance name	CAS no.	EC no.
1	chlorpropham	101-21-3	202-925-7
LC50		7.5	mg/l
Duration of exposure		96	h
Species	fish		
Source	Manufacturer		

**Toxicity to fish (chronic)**

No data available
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**Toxicity to Daphnia (acute)**

No	Substance name	CAS no.	EC no.
1	chlorpropham	101-21-3	202-925-7
EC50		4	mg/l

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Duration of exposure	48	h
Species	Daphnia	
Source	Manufacturer	

**Toxicity to Daphnia (chronic)**

No data available

**Toxicity to algae (acute)**

No	Substance name	CAS no.	EC no.
1	chlorthalopham	101-21-3	202-925-7
ErC50		1	mg/l
Duration of exposure		72	h
Species	Algae		
Source	Manufacturer		

**Toxicity to algae (chronic)**

No data available

**Bacteria toxicity**

No data available

**12.2 Persistence and degradability**

No data available.

**12.3 Bioaccumulative potential****Bioconcentration factor (BCF)**

No	Substance name	CAS no.	EC no.
1	chlorthalopham	101-21-3	202-925-7
BCF		144	
Source	Manufacturer		

**Partition coefficient: n-octanol/water**

No	Substance name	CAS no.	EC no.
1	chlorthalopham	101-21-3	202-925-7
log Pow	appr.	3.8	

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

No data available.

**12.6 Other adverse effects**

No data available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

**SECTION 14: Transport information****14.1 Transport ADR/RID/ADN**

Class	9
Classification code	M6
Packing group	III
Hazard identification no.	90
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.



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Technical name	chlorpropham
Tunnel restriction code	-
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

**14.2 Transport IMDG**

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	chlorpropham
EmS	F-A, S-F
Label	9
Marine pollutant mark	Symbol "fish and tree"

**14.3 Transport ICAO-TI / IATA**

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Technical name	chlorpropham
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

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

Not relevant

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3
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**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category:	E2
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**Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.

**15.2 Chemical safety assessment**

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A chemical safety assessment has not been carried out for this mixture.

## SECTION 16: Other information

### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

### Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

### Department issuing safety data sheet

UMCO GmbH

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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