

**Trade name:** Gro-Stop 100**Product no.:** CE 001 C0206 UK-2**Current version :** 1.1.0, issued: 04.07.2019**Replaced version:** 1.0.0, issued: 03.07.2019**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

**Gro-Stop 100****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Plant protection product for professional use. Agriculture.

Sprout inhibitor

**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 - www.certiseurope.co.uk

**Advice on Safety Data Sheet**

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)**

Aquatic Chronic 3; H412

Carc. 2; H351

Eye Irrit. 2; H319

Skin Irrit. 2; H315

STOT RE 2; H373

**Classification information**

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

Classification and labelling with respect to water pollution risks are based on ecotoxicological 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

**Signal word**

**Trade name:** Gro-Stop 100**Product no.:** CE 001 C0206 UK-2**Current version :** 1.1.0, issued: 04.07.2019**Replaced version:** 1.0.0, issued: 03.07.2019**Region:** GB**Warning****Hazardous component(s) to be indicated on label:**

dichloromethane

**Hazard statement(s)**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H351 Suspected of causing cancer  
H373 May cause damage to organs through prolonged or repeated exposure  
H412 Harmful 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.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P405 Store locked up.  
P262 Do not get in eyes, on skin, or on clothing.  
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.

**Labelling information**

The classification corresponds to the approval of the national authority.

**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	dichloromethane		
	75-09-2 200-838-9 602-004-00-3 01-2119480404-41	Carc. 2; H351 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H336 STOT SE 3; H335	> 75.00 %-b.w.
2	chlorpropham		
	101-21-3 202-925-7 006-096-00-0 -	Aquatic Chronic 2; H411 Carc. 2; H351 STOT RE 2*; H373**	>= 10.00 - < 25.00 %-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**

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes and launder thoroughly before reusing.

**After inhalation**

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

**After skin contact**

**Trade name:** Gro-Stop 100**Product no.:** CE 001 C0206 UK-2**Current version :** 1.1.0, issued: 04.07.2019**Replaced version:** 1.0.0, issued: 03.07.2019**Region:** GB

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

**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****Symptoms**

Unconsciousness; Dizziness; drowsiness; headaches; nausea; redness

**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); chlorine compounds; Nitrogen oxides (NO<sub>x</sub>); Hydrocarbons

**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).

**General protective and hygiene measures**

**Trade name:** Gro-Stop 100**Product no.:** CE 001 C0206 UK-2**Current version :** 1.1.0, issued: 04.07.2019**Replaced version:** 1.0.0, issued: 03.07.2019**Region:** GB

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.

**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****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	dichloromethane	75-09-2	200-838-9
	2017/164/EU		
	Methylene chloride; Dichloromethane		
	WEL short-term (15 min reference period)	706	mg/m <sup>3</sup> 200 ppm
	WEL long-term (8-hr TWA reference period)	353	mg/m <sup>3</sup> 100 ppm
	Skin resorption / sensibilisation	skin	
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	Dichloromethane		
	WEL short-term (15 min reference period)	706	mg/m <sup>3</sup> 200 ppm
	WEL long-term (8-hr TWA reference period)	353	mg/m <sup>3</sup> 100 ppm
	Comments	BMGV, Sk	

**DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name	CAS / EC no
	Route of exposure	Exposure time
	Effect	Value
1	dichloromethane	75-09-2 200-838-9
	dermal	Long term (chronic) systemic 12 mg/kg/day
	inhalative	Long term (chronic) systemic 3.53 mg/m <sup>3</sup>
	inhalative	Short term (acute) systemic 706 mg/m <sup>3</sup>

**DNEL value (consumer)**

No	Substance name	CAS / EC no
	Route of exposure	Exposure time
	Effect	Value
1	dichloromethane	75-09-2 200-838-9
	oral	Long term (chronic) systemic 0.06 mg/kg/day
	dermal	Long term (chronic) systemic 5.82 mg/kg/day
	inhalative	Long term (chronic) systemic 88.3 mg/m <sup>3</sup>
	inhalative	Short term (acute) systemic 353 mg/m <sup>3</sup>

**PNEC values**

No	Substance name	CAS / EC no
	ecological compartment	Type
		Value

**Trade name:** Gro-Stop 100**Product no.:** CE 001 C0206 UK-2**Current version :** 1.1.0, issued: 04.07.2019**Replaced version:** 1.0.0, issued: 03.07.2019**Region:** GB

1	<b>dichloromethane</b>		<b>75-09-2</b> <b>200-838-9</b>
	water	fresh water	0.31 mg/L
	water	marine water	0.031 mg/L
	water	Aqua intermittent	0.27 mg/L
	water	fresh water sediment	2.57 mg/kg dry weight
	water	marine water sediment	0.26 mg/kg dry weight
	soil	-	0.33 mg/kg dry weight
	sewage treatment plant	-	26 mg/L

**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. Particle filter half mask, filter P2

**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**

<b>Form/Colour</b>			
liquid			
light yellow			
<b>Odour</b>			
characteristic			
<b>Odour threshold</b>			
No data available			
<b>pH value</b>			
No data available			
<b>Boiling point / boiling range</b>			
Value	appr.	40	°C
Source	Manufacturer		
<b>Melting point / melting range</b>			
No data available			
<b>Decomposition point / decomposition range</b>			
No data available			
<b>Flash point</b>			

**Trade name:** Gro-Stop 100**Product no.:** CE 001 C0206 UK-2**Current version :** 1.1.0, issued: 04.07.2019**Replaced version:** 1.0.0, issued: 03.07.2019**Region:** GB

No data available

**Auto-ignition temperature**

Value	>	600	°C
Source	Manufacturer		

**Oxidising properties**

No data available

**Explosive properties**

not explosive

**Flammability (solid, gas)**

not flammable

**Lower flammability or explosive limits**

No data available

**Upper flammability or explosive limits**

No data available

**Vapour pressure**

No data available

**Vapour density**

No data available

**Evaporation rate**

No data available

**Relative density**

No data available

**Density**

Value	1.2891	g/cm <sup>3</sup>
Reference temperature	20	°C

**Solubility in water**

No data available

**Solubility(ies)**

No data available

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

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

**Viscosity**

Value	0.61	mm <sup>2</sup> /s
Type	kinematic	

**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**

**Trade name:** Gro-Stop 100**Product no.:** CE 001 C0206 UK-2**Current version :** 1.1.0, issued: 04.07.2019**Replaced version:** 1.0.0, issued: 03.07.2019**Region:** GB

None, if handled according to intended use.

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

Chlorine compounds; Carbon monoxide and carbon dioxide; Hydrocarbons; Nitrous oxides (NOx)

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

Acute oral toxicity			
No	Product Name		
1	Gro-Stop 100		
LD50	>	2000	mg/kg
Species	rat		
Source	Manufacturer		

Acute dermal toxicity			
No	Product Name		
1	Gro-Stop 100		
LD50	>	4000	mg/kg
Species	rat		
Source	Manufacturer		

Acute inhalational toxicity			
No	Product Name		
1	Gro-Stop 100		
LC50	>	6.49	mg/m <sup>3</sup>
State of aggregation	Dust/mist		
Species	rat		
Source	Manufacturer		

Skin corrosion/irritation			
No	Product Name		
1	Gro-Stop 100		
Source	Manufacturer		
Evaluation	irritant		

Serious eye damage/irritation			
No	Product Name		
1	Gro-Stop 100		
Source	Manufacturer		
Evaluation	irritant		

Respiratory or skin sensitisation			
No	Product Name		
1	Gro-Stop 100		
Route of exposure	Skin		
Source	Manufacturer		
Evaluation	slightly sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Germ cell mutagenicity			
No	Product Name		
1	Gro-Stop 100		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	Product Name		
1	Gro-Stop 100		
Evaluation/classification	Based on available data, the classification criteria are not met (maximum achievable concentration, no mortality).		

**Trade name:** Gro-Stop 100**Product no.:** CE 001 C0206 UK-2**Current version :** 1.1.0, issued: 04.07.2019**Replaced version:** 1.0.0, issued: 03.07.2019**Region:** GB

Carcinogenicity	
No	Product Name
1	Gro-Stop 100
Source Evaluation	Manufacturer Suspected of causing cancer.
STOT - single exposure	
No	Product Name
1	Gro-Stop 100
Evaluation/classification	Based on available data, the classification criteria are not met.
STOT - repeated exposure	
No	Product Name
1	Gro-Stop 100
Source Comments	Manufacturer May cause damage to organs through prolonged or repeated exposure
Aspiration hazard	
No data available	

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish (acute)			
No	Product Name		
1	Gro-Stop 100		
LC50		42.54	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Source	Manufacturer		
Toxicity to fish (chronic)			
No data available			
Toxicity to Daphnia (acute)			
No	Product Name		
1	Gro-Stop 100		
EC50		17.27	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	Manufacturer		
Toxicity to Daphnia (chronic)			
No data available			
Toxicity to algae (acute)			
No	Product Name		
1	Gro-Stop 100		
ErC50		5.8	mg/l
Duration of exposure		72	h
Species	Scenedesmus capricornutum		
Source	Manufacturer		
Toxicity to algae (chronic)			
No data available			
Bacteria toxicity			
No data available			

### 12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	dichloromethane	75-09-2	200-838-9
Value		68	%



**Trade name:** Gro-Stop 100**Product no.:** CE 001 C0206 UK-2**Current version :** 1.1.0, issued: 04.07.2019**Replaced version:** 1.0.0, issued: 03.07.2019**Region:** GB

Duration	28	day(s)
Method	OECD 301 D	
Source	ECHA	

**12.3 Bioaccumulative potential**

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	dichloromethane	75-09-2	200-838-9
BCF		2.0	- 5.4
Method		OECD 305	
Source		ECHA	
2	chlorpropham	101-21-3	202-925-7
BCF		144	
Source		Manufacturer	
Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	chlorpropham	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.

**12.7 Other information**

Other information
Do not discharge product unmonitored into the environment.

**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	6.1
Classification code	T1
Packing group	III
Hazard identification no.	60
UN number	UN1593
Proper shipping name	DICHLOROMETHANE
Tunnel restriction code	E
Label	6.1

**14.2 Transport IMDG**

Class	6.1
Packing group	III
UN number	UN1593
Proper shipping name	DICHLOROMETHANE
EmS	F-A, S-A
Label	6.1

**Trade name:** Gro-Stop 100**Product no.:** CE 001 C0206 UK-2**Current version :** 1.1.0, issued: 04.07.2019**Replaced version:** 1.0.0, issued: 03.07.2019**Region:** GB**14.3 Transport ICAO-TI / IATA**

Class	6.1
Packing group	III
UN number	UN1593
Proper shipping name	Dichloromethane
Label	6.1

**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
---	------

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.

No	Substance name	CAS no.	EC no.	No
1	dichloromethane	75-09-2	200-838-9	59

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is not subject to Part 1 or 2 of Annex I.

**Other regulations**

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

**15.2 Chemical safety assessment**

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)**

---

**Trade name:** Gro-Stop 100

**Product no.:** CE 001 C0206 UK-2

**Current version :** 1.1.0, issued: 04.07.2019

**Replaced version:** 1.0.0, issued: 03.07.2019

**Region:** GB

---

H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

**Department issuing safety data sheet**

UMCO GmbH

Georg-Wilhelm-Str. 187, D-21107 Hamburg

Tel.: +49 40 / 555 546 300 Fax: +49 40 / 555 546 357 e-mail: umco@umco.de

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.

Document protected by copyright. Alterations or reproductions require the express written permission of UMCO GmbH.

Prod-ID 758399