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

1.1. Product identifier
Product form : Mixture
Product name : GRO-STOP 100
Product code : CE 001 C0206
Type of formulation : Hot fogging concentrate (HN)
Active Ingredient : Chlorpropham

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

2.1. Relevant identified uses
Main use category : Plant protection product for professional use. Agriculture.
Use of the substance/mixture : Sprout inhibitor.

1.2.2. Uses advised against
No additional information available.

1.3. Details of the supplier of the safety data sheet
CERTIS UK
Suite 5, 3 Riverside
Granta Park
Great Abington
Cambridgeshire CB21 6AD
United Kingdom
Tel: +44 (0)845 373 0305
Fax: +44 (0)1223 891210
Email: certis@certiseurope.co.uk
Website: www.certiseurope.co.uk

1.4. Emergency telephone number
Emergency number : Certis Carechem24 multilingual 24 hours emergency number: +44 (0) 870 190 6777.
For further advice for medical professionals:
The National Poisons Information Service: +44 (0) 870 600 6266.
For further advice for veterinary surgeons: +44 (0) 20 7635 9195
Dublin - National Poisons Information Centre, Beaumont Hospital, Dublin 9:
Available from 8 am to 10 pm - 7 days: +353 (01) 809 2166
Available 24hrs: +353 (01) 809 2566

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Skin Irrit. 2 H315
Eye Irrit. 2 H319
Carc. 2 H351
STOT RE 2 H373
Aquatic Chronic 3 H412

Full text of H-phrases: see section 16.
2.2. Label elements

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

Hazard pictograms (CLP):

- GHS07
- GHS08

Signal word (CLP): Warning.

Hazardous ingredients: Chlorpropham, Dichloromethane

Hazard statements (CLP):
- 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.

Precautionary statements (CLP):
- P201 - Obtain special instructions before use.
- P262 - Do not get in eyes, on skin, or on clothing.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P308+P313 - IF exposed or concerned: Get medical advice/attention.
- P405 - Store locked up.
- P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

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

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>% (w/w)</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
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</table>
| Dichloromethane | (CAS No.) 75-09-2  
(EC no) 200-838-9  
(EC index no) 602-004-00-3 | >= 50  | Carc. 2, H351                                                |
| Chlorpropham  | (CAS No.) 101-21-3  
(EC no) 202-925-7  
(EC index no) 006-096-00-0 | 10 - 25 | Carc. 2, H351  
STOT RE 2, H373  
Aquatic Chronic 2, H411 |

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: In the event of any complaints or symptoms, avoid further exposure.

First-aid measures after inhalation: IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
- If symptoms persist call a doctor.
First-aid measures after skin contact: IF ON SKIN: Wash with plenty of soap and water. Remove contaminated clothing and shoes. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist.

First-aid measures after ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor. Never give anything by mouth to an unconscious person.

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

Symptoms/injuries: Can enter the body by ingestion or (less) inhalation and through the skin. Limited evidence of a carcinogenic effect.

Symptoms/injuries after inhalation: Dizziness, drowsiness, headache, nausea, unconsciousness.

Symptoms/injuries after skin contact: Redness.

Symptoms/injuries after eye contact: Redness, pain.

Symptoms/injuries after ingestion: Abdominal pain, chest pain. See also inhalation.

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

Product is a (weak) cholinesterase inhibitor.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray
Dry chemical powder
Alcohol resistant foam
Carbon dioxide (CO²).

Unsuitable extinguishing media: Jet of water.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Combustion or thermal decomposition may generate toxic vapours.

5.3. Advice for firefighters

Firefighting instructions: Exercise caution when fighting any chemical fire.
Fight fire from safe distance and protected location.
Do not breathe fumes
Cool closed containers exposed to fire with water spray
If possible, take the containers out of dangerous zone.
Contain fire-fighting water with dikes or absorbents to prevent migration and entry into sewers or streams.

Protection during firefighting: Wear suitable protective clothing, gloves, eye/face protection and respiratory protection Wear a self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Protective equipment: Wear suitable protective clothing, gloves and eye or face protection.
Emergency procedures: Evacuate area.
Ensure adequate ventilation.
Avoid direct contact with the substance.
Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

6.2. Environmental precautions
Prevent entry to sewers and public waters.
Notify the authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Clean up any spills as soon as possible, using an absorbent material to collect it.
Once absorbed collect spilled material with shovels, buckets and place in closed containers and label properly.
Remove as chemical waste, according to national or local legislation.
In the event of major spillage: contact an expert.

6.4. Reference to other sections
See sections 7-8-13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Read label before use.
Obtain special instructions before use.
Use only outdoors or in a well-ventilated area.
Do not breathe gas, fumes, vapour or spray.
Do not handle until all safety precautions have been read and understood.
Wear suitable protective clothing, gloves, eye/face protection and respiratory protection.
Avoid contact with eyes, skin, nose and mouth.
Opened containers must be carefully closed and kept upright to avoid leakage.

Hygiene measures: Always wash your hands immediately after handling this product, and once again before leaving the workplace.
Contaminated work clothing should not be allowed out of the workplace.
Do not eat, drink or smoke when using this product.
Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep in a well-ventilated room.
Keep in original containers, tightly closed.
Keep locked up.
Keep out of the reach of children.
Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)
Sprout inhibitor.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No additional information available
8.2. Exposure controls

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection: Wear impervious gloves chemical resistant nitrile rubber.

Eye protection: Safety goggles or a face shield.

Skin and body protection: Protective clothing with long sleeves waterproof and resistant to chemicals. Rubber boots.

Respiratory protection: Wear appropriate respirator for dust / organic vapors.

Hygiene measures: Do not eat, drink or smoke while handling the product.

- Clean gloves with soap and water before removing.
- Wash hands and face with soap and water before eating, drinking or smoking.
- Clean equipment, premises and work clothes regularly.
- Work clothing should remain on the work area and stored separately from street clothes.

Environmental exposure controls: Discharge into the environment must be avoided.

Do not contaminate surface and groundwater.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state: Liquid
- Colour: Translucent pale yellow.
- Odour: Characteristic.
- pH: It is not a miscible product.
- Boiling point: +/- 40 °C
- Self ignition temperature: > 600 °C
- Flammability (solid, gas): Not flammable
- Density: 1.2891 g/cm³
- Viscosity, kinematic: 0.61 mm²/sec
- Explosive properties: No explosive properties.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable at normal handling and storage conditions.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

Is not explosive and does not exhibit oxidant properties.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Combustion or thermal decomposition may generate toxic vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

- Acute toxicity: Not classified
GRO-STOP 100
Safety Data Sheet
Date of issue: 24/04/2018  Revision date: 24/04/2018  Version: 6.9

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<tr>
<td>LD_{50} oral rat</td>
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<tr>
<td>LD_{50} dermal rat</td>
</tr>
<tr>
<td>LC_{50} inhalation rat</td>
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</tbody>
</table>

Skin corrosion/irritation: Causes skin irritation (Mildly irritating)
Serious eye damage/irritation: Causes serious eye irritation.
Respiratory or skin sensitisation: Mild sensitising properties.
Germ cell mutagenicity: Not classified
Carcinogenicity: Suspected of causing cancer.
Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): May cause respiratory irritation. May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure): May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard: Not classified

SECTION 12: Ecological information

12.1. Toxicity

GRO-STOP 100

LC_{50} Fishes (Oncorhynhus mykiss) 42.54 mg/l (33 µl/l) - 96h
EC_{50} (Daphnia magna) 17.27 mg/l (13.4 µl/l) – 48h
EC_{50} (Selenastrum capricornutum) 5.8 mg/l (5.8 µl/l ) - 72h

12.2. Persistence and degradability

Chlorpropham (101-21-3)

Persistence and degradability: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. In soil DT_{50}lab (20 °C, aerobic): 22 and 27 d (r² >0.7).

12.3. Bioaccumulative potential

Chlorpropham (101-21-3)

BCF fish 2 144 l/kg
Log Pow ca 3,8

12.4. Mobility in soil

Chlorpropham (101-21-3)

Mobility in soil: Adsorption coefficient Koc = 260, 280, 480 l/kg

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other information: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

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

14.1. UN number

UN-No.: 1593
14.2. UN proper shipping name
Proper Shipping Name: Dichloromethane
Transport document description: UN 1593 Dichloromethane, 6.1, III, (E)

14.3. Transport hazard class(es)
Class (UN): 6.1

14.4. Packing group
Packing group (UN): III

14.5. Environmental hazards
Marine pollutant: Dangerous for the environment.

14.6. Special precautions for user
14.6.1. Overland transport
Hazard identification number (Kemler No.): 60
Orange plates: 60 1593

14.6.2. Transport by sea
No additional information available

14.6.3. Air transport
No additional information available

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations
No REACH Annex XVII restrictions
Contains no REACH candidate substance

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
A chemical safety assessment is not required for this product. The mixture is assessed under the provisions of Regulation (EC) 1107/2009.

SECTION 16: Other information
Indication of changes:

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<th>Section</th>
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**Full text of H- and EUH-phrases:**

- **Aquatic Chronic 2**: Hazardous to the aquatic environment - Chronic Hazard Category 2
- **Aquatic Chronic 3**: Hazardous to the aquatic environment - Chronic Hazard Category 3
- **Carc. 2**: Carcinogenicity Category 2
- **Eye Irrit. 2**: Serious eye damage/eye irritation Category 2
- **Flam. Liq. 2**: Flammable liquids Category 2
- **Skin Irrit. 2**: Skin corrosion/irritation Category 2
- **STOT RE 2**: Specific target organ toxicity (repeated exposure) Category 2
- **STOT SE 3**: Specific target organ toxicity (single exposure) Category 3
- **H225**: Highly flammable liquid and vapour
- **H315**: Causes skin irritation
- **H319**: Causes serious eye irritation
- **H335**: May cause respiratory irritation
- **H336**: May cause drowsiness or dizziness
- **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
- **H412**: Harmful to aquatic life with long lasting effects