

DIGRAIN CONTROL



SAFETY DATA SHEET  
(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

Product name : DIGRAIN CONTROL

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

Recommended use(s): Insecticide - biocidal use  
Use(s) advised against: Do not use for purposes other than those stated in "Recommended use(s)"

**Use descriptor system (REACH) :**

Not available.

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

Registered company name : (GB) LODI UK.  
Address : Unit 104, Potter Space, 7 Kidderminster Road, Cutnall Green, Droitwich WR9 0NS. UNITED KINGDOM. tel : 01 384 40 42 42  
Telephone : 02.99.08.48.59. Fax : 02 99 08 38 68.  
fds@lodi.fr  
<https://www.lodi-group.fr/>

**1.4. Emergency telephone number :**

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24- hour service)  
General public:  
England - Dial 111 to reach NHS 111 (24- hour service)  
Scotland - Dial 112 to reach NHS 24 (24- hour service)  
Wales - Dial 111 or 0845 4647 to reach NHS Direct (24- hour service).

**SECTION 2 : HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Aerosol, Category 1 (Aerosol 1, H222 - H229).  
Repeated exposure may cause skin dryness or cracking (EUH066).  
Eye irritation, Category 2 (Eye Irrit. 2, H319).  
May produce an allergic reaction (EUH208).  
Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H336).  
Aspiration hazard, Category 1 (Asp. Tox. 1, H304).  
Hazardous to the aquatic environment - Acute hazard, Category 1 (Aquatic Acute 1, H400).  
Hazardous to the aquatic environment - Chronic hazard, Category 1 (Aquatic Chronic 1, H410).  
The propellant gas is not taken into account when determining the health and environmental classification of the mixture.

**2.2. Label elements**

Biocidal mixture (see section 15).  
The mixture is an aerosol fitted with a sealed spray attachment.

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Hazard pictograms :



GHS02



GHS07



GHS09

Signal Word :

DANGER

Product identifiers :

EC 200-661-7 PROPAN-2-OL  
EC 200-662-2 ACETONE

Additional labeling :

EUH208 Contains PERMETHRIN (ISO). May produce an allergic reaction.

Hazard statements :

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H410 Very toxic to aquatic life with long lasting effects.

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|   |  |
|---|--|
| EUH066                                  | Repeated exposure may cause skin dryness or cracking.  |
| Precautionary statements - General :    |  |
| P102                                    | Keep out of reach of children.   |
| Precautionary statements - Prevention : |  |
| P210                                    | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                   |
| P211                                    | Do not spray on an open flame or other ignition source.  |
| P251                                    | Do not pierce or burn, even after use.   |
| Precautionary statements - Response :   |  |
| P305 + P351 + P338                      | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Precautionary statements - Storage :    |  |
| P410 + P412                             | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.   |
| Precautionary statements - Disposal :   |  |
| P501                                    | Dispose of contents/container according to the regulation.   |

**2.3. Other hazards**

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European Chemicals Agency (ECHA) under article 59 of REACH: <http://echa.europa.eu/fr/candidate-list-table>  
The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.  
The mixture does not contain substances > = 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2. Mixtures**

**Composition :**

| Identification  | Classification (EC) 1272/2008  | Note              | %               |
|---|--|-------------------|-----------------|
| INDEX: 601-004-00-0<br>CAS: 106-97-8<br>EC: 203-448-7<br><br>BUTANE   | GHS02, GHS04<br>Dgr<br>Flam. Gas 1A, H220  | C<br>[i]<br>[vii] | 50 <= x % < 100 |
| INDEX: 926_141_6<br>CAS: ^<br>EC: 926-141-6<br>REACH: 01-2119456620-43<br><br>HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS | GHS08<br>Dgr<br>Asp. Tox. 1, H304<br>EUH066  |                   | 10 <= x % < 25  |
| INDEX: 67_63_0D<br>CAS: 67-63-0<br>EC: 200-661-7<br>REACH: 01-2119457558-25<br><br>PROPAN-2-OL  | GHS07, GHS02<br>Dgr<br>Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336   | [i]               | 2.5 <= x % < 10 |
| INDEX: 606_001_00_8<br>CAS: 67-64-1<br>EC: 200-662-2<br>REACH: 01-2119471330-49<br><br>ACETONE  | GHS07, GHS02<br>Dgr<br>Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336   | [i]               | 2.5 <= x % < 10 |
| INDEX: 601-003-00-5<br>CAS: 74-98-6<br>EC: 200-827-9<br><br>PROPANE   | GHS02, GHS04<br>Dgr<br>Flam. Gas 1A, H220  | [i]<br>[vii]      | 2.5 <= x % < 10 |
| INDEX: 51_03_6C<br>CAS: 51-03-6<br>EC: 200-076-6<br>REACH: 01-2119537431-46<br><br>PIPERONYL BUTOXIDE (ISO)                                       | GHS07, GHS09<br>Wng<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>Aquatic Acute 1, H400<br>M Acute = 1<br>Aquatic Chronic 1, H410<br>M Chronic = 1<br>EUH066 |                   | 0 <= x % < 2.5  |

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|   |  |      |                |
|---|--|------|----------------|
| INDEX: 34590_94_8<br>CAS: 34590-94-8<br>EC: 252-104-2<br>DIPROPYLENE<br>GLYCOL<br>MONOMETHYL<br>ETHER |  | [i]  | 0 <= x % < 2.5 |
| INDEX: 613_058_00_2<br>CAS: 52645-53-1<br>EC: 258-067-9<br>PERMETHRIN (ISO)                           | GHS07, GHS09<br>Wng<br>Acute Tox. 4, H302<br>Skin Sens. 1, H317<br>Acute Tox. 4, H332<br>Aquatic Acute 1, H400<br>M Acute = 1000<br>Aquatic Chronic 1, H410<br>M Chronic = 1000  |      | 0 <= x % < 2.5 |
| INDEX: 607_727_008B<br>CAS: 7696-12-0<br>EC: 231-711-6<br>TETRAMETHRIN (ISO)                          | GHS07, GHS09, GHS08<br>Wng<br>Acute Tox. 4, H302<br>Carc. 2, H351<br>STOT SE 2, H371<br>Aquatic Acute 1, H400<br>M Acute = 100<br>Aquatic Chronic 1, H410<br>M Chronic = 100   | [ii] | 0 <= x % < 2.5 |
| INDEX: 101_84_8<br>CAS: 101-84-8<br>EC: 202-981-2<br>DIPHENYL ETHER                                   | GHS07, GHS09<br>Wng<br>Eye Irrit. 2, H319<br>Aquatic Chronic 3, H412<br>Aquatic Acute 1, H400<br>M Acute = 1   | [i]  | 0 <= x % < 2.5 |
| INDEX: 80_56_8_B<br>CAS: 80-56-8<br>EC: 201-291-9<br>REACH: 01-2119979519-16<br>ALPHA-PINENE          | GHS07, GHS09, GHS08, GHS02<br>Dgr<br>Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Aquatic Acute 1, H400<br>M Acute = 1<br>Aquatic Chronic 1, H410<br>M Chronic = 1 | [i]  | 0 <= x % < 2.5 |
| INDEX: 5392_40_5<br>CAS: 5392-40-5<br>EC: 226-394-6<br>CITRAL   | GHS07<br>Wng<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Eye Irrit. 2, H319   | [i]  | 0 <= x % < 2.5 |
| INDEX: 606_020_00_1<br>CAS: 541-85-5<br>EC: 208-793-7<br>5-METHYLHEPTAN-3-ONE                         | GHS07<br>Wng<br>Eye Irrit. 2, H319<br>STOT SE 3, H335  | [i]  | 0 <= x % < 2.5 |
| INDEX: 606-001-00-8<br>CAS: 67-64-1<br>EC: 200-662-2<br>ACETONE                                       | GHS02, GHS07<br>Dgr<br>Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>EUH066   | [i]  | 0 <= x % < 2.5 |

**Specific concentration limits:**

| Identification   | Specific concentration limits | ATE   |
|--|-------------------------------|---|
| INDEX: 67_63_0D<br>CAS: 67-63-0<br>EC: 200-661-7<br>REACH: 01-2119457558-25<br>PROPAN-2-OL |                               | dermal: ATE = 13900 mg/kg BW<br>oral: ATE = 5840 mg/kg BW |

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|   |  |  |
|---|--|--|
| INDEX: 606_001_00_8<br>CAS: 67-64-1<br>EC: 200-662-2<br>REACH: 01-2119471330-49<br><br>ACETONE      |  | inhalation: ATE = 76 mg/l 4h<br>(dust/mist)<br>oral: ATE = 5800 mg/kg BW   |
| INDEX: 34590_94_8<br>CAS: 34590-94-8<br>EC: 252-104-2<br><br>DIPROPYLENE GLYCOL MONOMETHYL<br>ETHER |  | inhalation: ATE = 3.40447 mg/l<br>(vapours)<br>dermal: ATE = 9510 mg/kg BW |
| INDEX: 613_058_00_2<br>CAS: 52645-53-1<br>EC: 258-067-9<br><br>PERMETHRIN (ISO)                     |  | oral: ATE = 554 mg/kg BW   |
| INDEX: 101_84_8<br>CAS: 101-84-8<br>EC: 202-981-2<br><br>DIPHENYL ETHER                             |  | dermal: ATE = 7940 mg/kg BW<br>oral: ATE = 5500 mg/kg BW                   |
| INDEX: 80_56_8_B<br>CAS: 80-56-8<br>EC: 201-291-9<br>REACH: 01-2119979519-16<br><br>ALPHA-PINENE    |  | oral: ATE = 500 mg/kg BW   |
| INDEX: 5392_40_5<br>CAS: 5392-40-5<br>EC: 226-394-6<br><br>CITRAL                                   |  | dermal: ATE = 2250 mg/kg BW<br>oral: ATE = 4950 mg/kg BW                   |
| INDEX: 606_020_00_1<br>CAS: 541-85-5<br>EC: 208-793-7<br><br>5-METHYLHEPTAN-3-ONE                   |  | oral: ATE = 2760 mg/kg BW  |

**Information on ingredients :**

(Full text of H-phrases: see section 16)

- [i] Substance for which maximum workplace exposure limits are available.
- [ii] Carcinogenic, mutagenic or reprotoxic (CMR) substance.
- [vii] Propellant gas

**SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

**4.1. description of first aid measures**

**In the event of exposure by inhalation :**

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

In the event of an allergic reaction, seek medical attention.

**In the event of splashes or contact with eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

**In the event of splashes or contact with skin :**

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

**In the event of swallowing :**

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

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Keep the person exposed at rest. Do not force vomiting.

Seek medical attention, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

If swallowed accidentally, do not allow to drink, do not induce vomiting and transfer to hospital immediately by ambulance. Show the label to the doctor.

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

No data available.

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

#### Specific and immediate treatment :

Treat symptomatically.

#### Information for the doctor :

Treat symptomatically.

## SECTION 5 : FIREFIGHTING MEASURES

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

### 5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.

#### Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- water with AFFF (Aqueous Film Forming Foam) additive

Prevent the effluent of fire-fighting measures from entering drains or waterways.

#### Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

### 5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

### 5.3. Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

#### For non first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

#### For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

### 6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Use drums to dispose of collected waste in compliance with current regulations (see section 13).

### 6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

### 6.4. Reference to other sections

No data available.

## SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

### 7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Remove contaminated clothing and protective equipment before entering eating areas.

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**Fire prevention :**

- Handle in well-ventilated areas.
- Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.
- Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.
- Do not spray on a naked flame or any incandescent material.
- Do not pierce or burn, even after use.
- Never inhale this mixture.
- Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.
- Keep packages tightly closed and away from sources of heat, sparks and naked flames.
- Do not use tools which may produce sparks. Do not smoke.
- Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

- For personal protection, see section 8.
- Observe precautions stated on label and also industrial safety regulations.
- Do not breathe in aerosols.
- Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.
- Provide vapor extraction at the emission source and also general ventilation of the premises.
- Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.
- In all cases, recover emissions at source.
- Avoid skin and eye contact with this mixture.
- Packages which have been opened must be reclosed carefully and stored in an upright position.

**Prohibited equipment and procedures :**

- No smoking, eating or drinking in areas where the mixture is used.
- Never open the packages under pressure.

**7.2. Conditions for safe storage, including any incompatibilities**

No data available.

**Storage**

- Keep out of reach of children.
- Keep the container tightly closed in a dry, well-ventilated place.
- Keep away from food and drink, including those for animals.
- Keep away from all sources of ignition - do not smoke.
- Keep well away from all sources of ignition, heat and direct sunlight.
- The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.
- Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

**Packaging**

- Always keep in packaging made of an identical material to the original.
- Recommended types of packaging :
- Original packaging.
- Suitable packaging materials :
- Original packaging.
- Unsuitable packaging materials :
- Different that the original packaging.

**7.3. Specific end use(s)**

No data available.

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Occupational exposure limits :**

**- UK :**

| CAS  | TWA :                 | STEL :                 | Ceiling : | Definition : | Criteria : |
|--|-----------------------|------------------------|-----------|--------------|------------|
| 106-97-8<br>BUTANE                                   | 600 ppm<br>1450 mg/m3 | 750 ppm<br>1810 mg/m3  |           |              |            |
| 67-63-0<br>PROPAN-2-OL                               | 400 ppm<br>999 mg/m3  | 500 ppm<br>1250 mg/m3  |           |              |            |
| 67-64-1<br>ACETONE                                   | 500 ppm<br>1210 mg/m3 | 1500 ppm<br>3620 mg/m3 |           |              |            |
| 34590-94-8<br>DIPROPYLENE GLYCOL<br>MONOMETHYL ETHER | 50 ppm<br>308 mg/m3   |                        |           |              |            |
| 101-84-8<br>DIPHENYL ETHER                           | 1 ppm<br>7 mg/m3      | 2 ppm<br>14 mg/m3      |           |              |            |
| 541-85-5<br>5-METHYLHEPTAN-3-ONE                     | 10 ppm<br>53 mg/m3    | 20 ppm<br>107 mg/m3    |           |              |            |
| 67-64-1<br>ACETONE                                   | 500 ppm<br>1210 mg/m3 | 1500 ppm<br>3620 mg/m3 |           |              |            |

**DIGRAIN CONTROL**

**Derived no effect level (DNEL) or derived minimum effect level (DMEL):**

5-METHYLHEPTAN-3-ONE (CAS: 541-85-5)

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Long term systemic effects.  
3 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects  
10.759 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Short term local effects.  
53 mg of substance/m3

CITRAL (CAS: 5392-40-5)

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Long term systemic effects.  
1.7 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
9 mg of substance/m3

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Consumers.**

Ingestion.  
Long term systemic effects.  
0.6 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Dermal contact.  
Long term systemic effects.  
1 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
2.7 mg of substance/m3

DIPHENYL ETHER (CAS: 101-84-8)

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Long term systemic effects.  
25 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Short term local effects.  
14 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
59 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term local effects.  
7 mg of substance/m3

DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS: 34590-94-8)

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Long term systemic effects.  
283 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
308 mg of substance/m3

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Consumers.**

Ingestion.  
Long term systemic effects.  
36 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Dermal contact.  
Long term systemic effects.  
121 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
37.2 mg of substance/m3

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ACETONE (CAS: 67-64-1)

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Long term systemic effects.  
186 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Short term local effects.  
2420 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Short term systemic effects.  
1210 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term local effects.  
1210 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
1210 mg of substance/m3

**Predicted no effect concentration (PNEC):**

5-METHYLHEPTAN-3-ONE (CAS: 541-85-5)

Environmental compartment:  
PNEC :

Soil.  
0.17 mg/kg

Environmental compartment:  
PNEC :

Fresh water.  
0.04 mg/l

Environmental compartment:  
PNEC :

Sea water.  
0.004 mg/l

Environmental compartment:  
PNEC :

Intermittent waste water.  
0.4 mg/l

Environmental compartment:  
PNEC :

Fresh water sediment.  
0.96 mg/kg

Environmental compartment:  
PNEC :

Marine sediment.  
0.096 mg/kg

Environmental compartment:  
PNEC :

Waste water treatment plant.  
25 mg/l

CITRAL (CAS: 5392-40-5)

Environmental compartment:  
PNEC :

Soil.  
0.021 mg/kg

Environmental compartment:  
PNEC :

Fresh water.  
0.007 mg/l

Environmental compartment:  
PNEC :

Sea water.  
0.001 mg/l

Environmental compartment:  
PNEC :

Intermittent waste water.  
0.068 mg/l

Environmental compartment:  
PNEC :

Fresh water sediment.  
0.125 mg/kg

Environmental compartment:  
PNEC :

Marine sediment.  
0.013 mg/kg

Environmental compartment:  
PNEC :

Waste water treatment plant.  
1.6 mg/l

DIPHENYL ETHER (CAS: 101-84-8)

Environmental compartment:  
PNEC :

Soil.  
0.018 mg/kg

Environmental compartment:  
PNEC :

Fresh water.  
0 mg/l

Environmental compartment:  
PNEC :

Sea water.  
0 mg/l

Environmental compartment:  
PNEC :

Intermittent waste water.  
0.005 mg/l

Environmental compartment:  
PNEC :

Fresh water sediment.  
0.093 mg/kg

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|                                      |   |
|--------------------------------------|---|
| Environmental compartment:<br>PNEC : | Marine sediment.<br>0.009 mg/kg         |
| Environmental compartment:<br>PNEC : | Waste water treatment plant.<br>10 mg/l |

### DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS: 34590-94-8)

|                                      |   |
|--------------------------------------|---|
| Environmental compartment:<br>PNEC : | Soil.<br>2.74 mg/kg                       |
| Environmental compartment:<br>PNEC : | Fresh water.<br>19 mg/l                   |
| Environmental compartment:<br>PNEC : | Sea water.<br>1.9 mg/l                    |
| Environmental compartment:<br>PNEC : | Intermittent waste water.<br>190 mg/l     |
| Environmental compartment:<br>PNEC : | Fresh water sediment.<br>70.2 mg/kg       |
| Environmental compartment:<br>PNEC : | Marine sediment.<br>7.02 mg/kg            |
| Environmental compartment:<br>PNEC : | Waste water treatment plant.<br>4168 mg/l |

### ACETONE (CAS: 67-64-1)

|                                      |  |
|--------------------------------------|--|
| Environmental compartment:<br>PNEC : | Soil.<br>29.5 mg/kg                      |
| Environmental compartment:<br>PNEC : | Fresh water.<br>10.6 mg/l                |
| Environmental compartment:<br>PNEC : | Sea water.<br>1.06 mg/l                  |
| Environmental compartment:<br>PNEC : | Intermittent waste water.<br>21 mg/l     |
| Environmental compartment:<br>PNEC : | Fresh water sediment.<br>30.4 mg/kg      |
| Environmental compartment:<br>PNEC : | Marine sediment.<br>3.04 mg/kg           |
| Environmental compartment:<br>PNEC : | Waste water treatment plant.<br>100 mg/l |

## 8.2. Exposure controls

### Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

#### - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

#### - Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

## DIGRAIN CONTROL

Type of gloves recommended :

- PVA (Polyvinyl alcohol)
- Butyl Rubber (Isobutylene-isoprene copolymer)

### - Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

### - Respiratory protection

Avoid inhaling vapors.

If the ventilation is insufficient, wear appropriate breathing apparatus.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

#### Physical state

Physical state : Fluid liquid.  
Spray.

#### Colour

Unspecified

#### Odour

Odour threshold : Not stated.

#### Melting point

Melting point/melting range : Not relevant.

#### Freezing point

Freezing point / Freezing range : Not stated.

#### Boiling point or initial boiling point and boiling range

Boiling point/boiling range : Not relevant.

#### Flammability

Flammability (solid, gas) : Not stated.

#### Lower and upper explosion limit

Explosive properties, lower explosivity limit (%) : Not stated.

Explosive properties, upper explosivity limit (%) : Not stated.

#### Flash point

Flash point interval : Not relevant.

#### Auto-ignition temperature

Self-ignition temperature : Not relevant.

#### Decomposition temperature

Decomposition point/decomposition range : Not relevant.

#### pH

pH (aqueous solution) : Not stated.

pH : Not relevant.

#### Kinematic viscosity

Viscosity : Not stated.

Viscosity:  $v < 7 \text{ mm}^2/\text{s}$  (40°C)

#### Solubility

Water solubility : Insoluble.

Fat solubility : Not stated.

#### Partition coefficient n-octanol/water (log value)

Partition coefficient: n-octanol/water : Not stated.

#### Vapour pressure

Vapour pressure (50°C) : Below 110 kPa (1.10 bar).

#### Density and/or relative density

Density :  $< 1$

#### Relative vapour density

Vapour density : Not stated.

### 9.2. Other information

No data available.

#### 9.2.1. Information with regard to physical hazard classes

No data available.

#### Aerosols

Chemical combustion heat :  $\geq 30 \text{ kJ/g}$ .

**DIGRAIN CONTROL**

**9.2.2. Other safety characteristics**

No data available.

**SECTION 10 : STABILITY AND REACTIVITY**

**10.1. Reactivity**

Stable under normal conditions.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

**10.4. Conditions to avoid**

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid :

- heating
- heat

**10.5. Incompatible materials**

None.

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

**SECTION 11 : TOXICOLOGICAL INFORMATION**

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**11.1.1. Substances**

**a) Acute toxicity :**

5-METHYLHEPTAN-3-ONE (CAS: 541-85-5)

Oral route : LD50 = 2760 mg/kg body weight

Dermal route : LD50 > 2000 mg/kg body weight

Inhalation route (Dusts/mist) : LC50 > 20 mg/l

CITRAL (CAS: 5392-40-5)

Oral route : LD50 = 4950 mg/kg body weight  
Species : Rat

Dermal route : LD50 = 2250 mg/kg body weight  
Species : Rabbit

Inhalation route (Dusts/mist) : LC50 > 20 mg/l

ALPHA-PINENE (CAS: 80-56-8)

Oral route : LD50 = 500 mg/kg body weight

DIPHENYL ETHER (CAS: 101-84-8)

Oral route : LD50 = 5500 mg/kg body weight  
Species : Rat

Dermal route : LD50 = 7940 mg/kg body weight  
Species : Rabbit

Inhalation route (Dusts/mist) : LC50 > 5 mg/l

TETRAMETHRIN (ISO) (CAS: 7696-12-0)

Oral route : LD50 > 2000 mg/kg body weight  
Species : Rat  
OECD Guideline 423 (Acute Oral toxicity/Acute Toxic Class Method)

Dermal route : LD50 > 2000 mg/kg body weight  
Species : Rat  
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Dusts/mist) : LC50 > 5.63 mg/l  
Species : Rat  
OECD Guideline 403 (Acute Inhalation Toxicity)

## DIGRAIN CONTROL

### PERMETHRIN (ISO) (CAS: 52645-53-1)

|                                 |   |
|---------------------------------|---|
| Oral route :                    | LD50 = 554 mg/kg body weight<br>Species : Rat<br>OECD Guideline 423 (Acute Oral toxicityAcute Toxic Class Method) |
| Dermal route :                  | LD50 > 2000 mg/kg body weight<br>Species : Rat<br>OECD Guideline 402 (Acute Dermal Toxicity)                      |
| Inhalation route (Dusts/mist) : | LC50 > 4.638 mg/l<br>Species : Rat<br>OECD Guideline 403 (Acute Inhalation Toxicity)                              |

### DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS: 34590-94-8)

|                              |   |
|------------------------------|---|
| Oral route :                 | LD50 > 5000 mg/kg body weight<br>Species : Rat    |
| Dermal route :               | LD50 = 9510 mg/kg body weight<br>Species : Rabbit |
| Inhalation route (Vapours) : | LC50 = 3.40447 mg/l<br>Species : Rat              |

### PIPERONYL BUTOXIDE (ISO) (CAS: 51-03-6)

|                                 |   |
|---------------------------------|---|
| Oral route :                    | LD50 > 2000 mg/kg body weight<br>Species : Rat<br>OECD Guideline 401 (Acute Oral Toxicity)      |
| Dermal route :                  | LD50 > 2000 mg/kg body weight<br>Species : Rabbit<br>OECD Guideline 402 (Acute Dermal Toxicity) |
| Inhalation route (Dusts/mist) : | LC50 > 5.9 mg/l<br>Species : Rat<br>OECD Guideline 403 (Acute Inhalation Toxicity)              |

### ACETONE (CAS: 67-64-1)

|                                 |   |
|---------------------------------|---|
| Oral route :                    | LD50 = 5800 mg/kg body weight<br>Species : Rat  |
| Dermal route :                  | LD50 > 15800 mg/kg body weight<br>Species : Rat |
| Inhalation route (Dusts/mist) : | LC50 = 76 mg/l<br>Duration of exposure : 4 h    |

### PROPAN-2-OL (CAS: 67-63-0)

|                              |   |
|------------------------------|---|
| Oral route :                 | LD50 = 5840 mg/kg body weight<br>Species : Rat  |
| Dermal route :               | LD50 = 13900 mg/kg body weight<br>Species : Rat |
| Inhalation route (Vapours) : | LC50 > 25 mg/l<br>Species : Rat                 |

### HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS (CAS: ^)

|                              |   |
|------------------------------|---|
| Oral route :                 | LD50 > 5000 mg/kg body weight<br>Species : Rat<br>OECD Guideline 401 (Acute Oral Toxicity)        |
| Dermal route :               | LD50 > 2000 mg/kg body weight<br>Species : Rabbit<br>OECD Guideline 402 (Acute Dermal Toxicity)   |
| Inhalation route (Vapours) : | LC50 > 5000 mg/m3<br>OECD Guideline 403 (Acute Inhalation Toxicity)<br>Duration of exposure : 4 h |

#### b) Skin corrosion/skin irritation :

|   |  |
|---|--|
| DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS: 34590-94-8) | Species : Rabbit<br>OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
|---|--|

#### c) Serious damage to eyes/eye irritation :

No data available.

## DIGRAIN CONTROL

### d) Respiratory or skin sensitisation :

HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS (CAS: ^)  
Guinea Pig Maximisation Test (GMPT) : Non-sensitiser.  
OECD Guideline 406 (Skin Sensitisation)

### e) Germ cell mutagenicity :

No data available.

### f) Carcinogenicity :

No data available.

### g) Reproductive toxicant :

No data available.

### h) Specific target organ systemic toxicity - single exposure :

No data available.

### i) Specific target organ systemic toxicity - repeated exposure :

No data available.

### j) Aspiration hazard :

No data available.

## 11.1.2. Mixture

### 11.1.2.1 Information on hazard classes

#### a) Acute toxicity :

No data available.

#### b) Skin corrosion/skin irritation :

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

#### c) Serious damage to eyes/eye irritation :

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.  
Splashes in the eyes may cause irritation and reversible damage

#### d) Respiratory or skin sensitisation :

Contains at least one sensitising substance. May cause an allergic reaction.

#### e) Germ cell mutagenicity :

No data available.

#### f) Carcinogenicity :

No data available.

#### g) Reproductive toxicant :

No data available.

#### h) Specific target organ systemic toxicity - single exposure :

Narcotic effects may occur, such as drowsiness, narcosis, decreased alertness, loss of reflexes, lack of coordination or dizziness.  
Effects may also occur in the form of violent headaches or nausea, judgement disorder, giddiness, irritability, fatigue or memory disturbance.

#### i) Specific target organ systemic toxicity - repeated exposure :

No data available.

#### j) Aspiration hazard :

May be fatal if swallowed and enters airways.  
Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.

## 11.1.2.2 Other information

### Symptoms related to the physical, chemical and toxicological characteristics

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.  
Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

### Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 97-53-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.  
CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.  
CAS 52645-53-1 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.  
CAS 51-03-6 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.  
CAS 67-63-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

## 11.2. Information on other hazards

### Endocrine disrupting properties

The mixture does not contain any substance evaluated as an endocrine disruptor with effects on human health.

## SECTION 12 : ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.  
The product must not be allowed to run into drains or waterways.

## DIGRAIN CONTROL

### 12.1. Toxicity

#### 12.1.1. Substances

TETRAMETHRIN (ISO) (CAS: 7696-12-0)

Fish toxicity :

LC50 = 0.033 mg/l  
M-Factor = 100  
Species : Brachydanio rerio

Duration of exposure : 96 h  
OECD Guideline 203 (Fish, Acute Toxicity Test)

NOEC = 0.72 mg/l  
M-Factor = 100  
Species : Others

Crustacean toxicity :

EC50 = 0.47 mg/l  
M-Factor = 100  
Species : Daphnia magna  
Duration of exposure : 48 h  
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity :

ECr50 = 1.36 mg/l  
Species : Scenedesmus subspicatus  
Duration of exposure : 72 h  
OECD Guideline 201 (Alga, Growth Inhibition Test)

NOEC = 0.72 mg/l  
Species : Scenedesmus subspicatus  
OECD Guideline 201 (Alga, Growth Inhibition Test)

PERMETHRIN (ISO) (CAS: 52645-53-1)

Fish toxicity :

LC50 = 0.009 mg/l  
Species : Oncorhynchus mykiss  
Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 0.00064 mg/l  
Species : Daphnia magna  
Duration of exposure : 48 h

DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS: 34590-94-8)

Fish toxicity :

LC50 > 10000 mg/l  
Species : Poecilia reticulata  
Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 1919 mg/l  
Species : Daphnia magna  
Duration of exposure : 48 h

NOEC = 0.5 mg/l  
Species : Daphnia magna

Algae toxicity :

ECr50 > 969 mg/l  
Species : Pseudokirchnerella subcapitata  
Duration of exposure : 96 h

PIPERONYL BUTOXIDE (ISO) (CAS: 51-03-6)

Fish toxicity :

LC50 = 3.94 mg/l  
Species : Cyprinodon variegatus  
Duration of exposure : 96 h  
OECD Guideline 203 (Fish, Acute Toxicity Test)

NOEC = 0.18 mg/l  
Species : Pimephales promelas  
EPA OPP 72-4 (Fish Early Life-Stage and Aquatic Invertebrate Life-Cycle Studies)

Crustacean toxicity :

EC50 = 0.51 mg/l  
Species : Daphnia magna  
Duration of exposure : 48 h  
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

NOEC = 0.03 mg/l  
M-Factor = 1  
Species : Daphnia magna  
Duration of exposure : 21 days

Algae toxicity :

ECr50 = 3.89 mg/l  
Species : Selenastrum capricornutum  
Duration of exposure : 72 h  
OECD Guideline 201 (Alga, Growth Inhibition Test)

**DIGRAIN CONTROL**

|   |  |
|---|--|
|   | NOEC = 0.824 mg/l<br>Species : <i>Selenastrum capricornutum</i><br>OECD Guideline 201 (Alga, Growth Inhibition Test)                                     |
| ACETONE (CAS: 67-64-1)<br>Fish toxicity :   | LC50 = 5540 mg/l<br>Species : <i>Oncorhynchus mykiss</i><br>Duration of exposure : 96 h  |
| Crustacean toxicity :   | EC50 = 8800 mg/l<br>Species : <i>Daphnia magna</i><br>Duration of exposure : 48 h  |
|   | NOEC = 2212 mg/l<br>Species : <i>Daphnia magna</i><br>Duration of exposure : 28 days   |
| Algae toxicity :  | NOEC = 430 mg/l<br>Duration of exposure : 48 h   |
| PROPAN-2-OL (CAS: 67-63-0)<br>Fish toxicity :   | LC50 > 9640 mg/l<br>Species : <i>Pimephales promelas</i><br>Duration of exposure : 96 h  |
| Crustacean toxicity :   | EC50 > 10000 mg/l<br>Species : <i>Daphnia magna</i><br>Duration of exposure : 24 h   |
| HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS (CAS: ^)<br>Fish toxicity : | LC50 > 1000 mg/l<br>Species : <i>Oncorhynchus mykiss</i><br>Duration of exposure : 96 h<br>OECD Guideline 203 (Fish, Acute Toxicity Test)                |
|   | NOEC = 0.17 mg/l<br>Species : <i>Oncorhynchus mykiss</i><br>Duration of exposure : 28 days   |
| Crustacean toxicity :   | EC50 > 1000 mg/l<br>Species : <i>Daphnia magna</i><br>Duration of exposure : 48 h<br>OECD Guideline 202 ( <i>Daphnia</i> sp. Acute Immobilisation Test)  |
|   | NOEC = 1.22 mg/l<br>Species : <i>Daphnia magna</i>   |
| Algae toxicity :  | ECr50 > 1000 mg/l<br>Species : <i>Pseudokirchnerella subcapitata</i><br>Duration of exposure : 72 h<br>OECD Guideline 201 (Alga, Growth Inhibition Test) |
|   | NOEC = 1000 mg/l<br>Species : <i>Pseudokirchnerella subcapitata</i><br>Duration of exposure : 72 h<br>OECD Guideline 201 (Alga, Growth Inhibition Test)  |
| CITRAL (CAS: 5392-40-5)<br>Fish toxicity :  | LC50 = 6.1 mg/l<br>Species : <i>Oryzias latipes</i><br>Duration of exposure : 24 h   |
| Crustacean toxicity :   | EC50 = 11 mg/l<br>Species : <i>Daphnia magna</i><br>Duration of exposure : 24 h  |
| Algae toxicity :  | ECr50 = 16 mg/l<br>Species : <i>Scenedesmus subspicatus</i><br>Duration of exposure : 72 h   |
| DIPHENYL ETHER (CAS: 101-84-8)<br>Fish toxicity :   | LC50 <= 1 mg/l<br>Duration of exposure : 96 h  |
| Crustacean toxicity :   | EC50 <= 1 mg/l<br>Duration of exposure : 48 h  |
| Algae toxicity :  | ECr50 <= 1 mg/l<br>Duration of exposure : 72 h   |

**DIGRAIN CONTROL**

**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

**12.2. Persistence and degradability**

**12.2.1. Substances**

|  |   |
|--|---|
| DIPHENYL ETHER (CAS: 101-84-8)<br>Biodegradability :   | Rapidly degradable.   |
| TETRAMETHRIN (ISO) (CAS: 7696-12-0)<br>Biodegradability :  | Non-rapidly degradable.   |
| PERMETHRIN (ISO) (CAS: 52645-53-1)<br>Biodegradability :   | no degradability data is available, the substance is considered as not degrading quickly. |
| DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS: 34590-94-8)<br>Biodegradability :                        | Rapidly degradable.   |
| PIPERONYL BUTOXIDE (ISO) (CAS: 51-03-6)<br>Biodegradability :                                      | Non-rapidly degradable.   |
| ACETONE (CAS: 67-64-1)<br>Biodegradability :   | no degradability data is available, the substance is considered as not degrading quickly. |
| HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLIC, <2% AROMATICS (CAS: ^)<br>Biodegradability : | Rapidly degradable.   |
| CITRAL (CAS: 5392-40-5)<br>Chemical oxygen demand :  | DCO = 1.99 g/g  |
| Five-day biochemical oxygen demand :   | DBO5 = 0.56   |
| Biodegradability :   | Non-rapidly degradable.<br>BOD5/COD = 0.28  |
| PROPAN-2-OL (CAS: 67-63-0)<br>Chemical oxygen demand :   | DCO = 2294000 mg/kg   |
| Five-day biochemical oxygen demand :   | DBO5 = 1171000 mg/kg  |
| Biodegradability :   | Rapidly degradable.   |

**12.3. Bioaccumulative potential**

**12.3.1. Substances**

|  |  |
|--|--|
| CITRAL (CAS: 5392-40-5)<br>Bioaccumulation :   | FBC = 10   |
| DIPHENYL ETHER (CAS: 101-84-8)<br>Bioaccumulation :  | FBC = 196  |
| TETRAMETHRIN (ISO) (CAS: 7696-12-0)<br>Octanol/water partition coefficient :                   | Log Kow > 4.09   |
| PERMETHRIN (ISO) (CAS: 52645-53-1)<br>Octanol/water partition coefficient :                    | Log Kow = 6.5  |
| DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS: 34590-94-8)<br>Octanol/water partition coefficient : | Log Kow = 0.006  |
| PIPERONYL BUTOXIDE (ISO) (CAS: 51-03-6)<br>Octanol/water partition coefficient :               | Log Kow = 4.8<br>OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| Bioaccumulation :  | FBC = 290<br>Species : Lepomis macrochirus (Fish)  |
| ACETONE (CAS: 67-64-1)<br>Octanol/water partition coefficient :                                | Log Kow = -0.24  |
| Bioaccumulation :  | FBC = 3  |
| PROPAN-2-OL (CAS: 67-63-0)<br>Octanol/water partition coefficient :                            | Log Kow = 0.05   |

**DIGRAIN CONTROL**

**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**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**SECTION 14 : TRANSPORT INFORMATION**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2025 - IMDG 2024 [42-24] - ICAO/IATA 2026 [67]).

**14.1. UN number or ID number**

1950

**14.2. UN proper shipping name**

UN1950=AEROSOLS, flammable

**14.3. Transport hazard class(es)**

- Classification :



2.1

**14.4. Packing group**

-

**14.5. Environmental hazards**

- Environmentally hazardous material :



**14.6. Special precautions for user**

| ADR/RID | Class | Code | Pack gr. | Label | Ident. | LQ  | Provis.         | EQ | Cat. | Tunnel |
|---------|-------|------|----------|-------|--------|-----|-----------------|----|------|--------|
|         | 2     | 5F   | -        | 2.1   | -      | 1 L | 190 327 344 625 | E0 | 2    | D      |

| IMDG | Class | 2°Label  | Pack gr. | LQ        | EMS      | Provis.                    | EQ | Stowage Handling | Segregation |
|------|-------|----------|----------|-----------|----------|----------------------------|----|------------------|-------------|
|      | 2     | See SP63 | -        | See SP277 | F-D. S-U | 63 190 277 327 344 381 959 | E0 | - SW1 SW22       | SG69        |

| IATA | Class | 2°Label | Pack gr. | Passager | Passager | Cargo | Cargo  | note           | EQ |
|------|-------|---------|----------|----------|----------|-------|--------|----------------|----|
|      | 2.1   | -       | -        | 203      | 75 kg    | 203   | 150 kg | A145 A167 A802 | E0 |
|      | 2.1   | -       | -        | Y203     | 30 kg G  | -     | -      | A145 A167 A802 | E0 |

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

Marine pollutant (IMDG 3.1.2.9):(permethrin (iso))

## DIGRAIN CONTROL

### 14.7. Maritime transport in bulk according to IMO instruments

No data available.

## SECTION 15 : REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Classification and labelling information included in section 2:

The following regulations have been used:

- Directive 75/324/CEE modified by directive 2013/10/UE
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2020/1182 (ATP15)

#### Container information:

No data available.

#### Particular provisions :

No data available.

#### Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):  
<https://echa.europa.eu/substances-restricted-under-reach>.

#### Authorisations agreed under Title VII of Regulation (EC) No.1907/2006 (REACH):

The mixture does not contain any substance subject to authorisation according to Annex XIV of REACH Regulation (EC) No 1907/2006:  
<https://echa.europa.eu/fr/authorisation-list>.

#### Ozone-depleting substances (Regulation (EC) No 2024/590).

The mixture does not contain any substance posing a risk to the ozone layer.

#### Persistent organic pollutants (POP) (Regulation (EU) 2019/1021):

The mixture does not contain a persistent organic pollutant.

#### PIC Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (Rotterdam Convention):

The mixture is subject to the Prior Informed Consent (PIC) procedure.

The mixture contains a substance subject to the export notification procedure requirement.  
52645-53-1 PERMETHRIN (ISO)

#### Explosives precursors :

The mixture contains at least one substance subject to the Poisons act 1972 and control of explosives precursors and poisons regulations Regulation of 2023 (UK):

- Acetone (CAS 67-64-1)

The acquisition, introduction, possession or use of this restricted explosive precursor by members of the general public is subject to the reporting obligations.

#### Labelling for biocidal products (Regulation (UE) n° 528/2012) :

| Name               | CAS        | %       | Product-type |
|--------------------|------------|---------|--------------|
| TETRAMETHRIN (ISO) | 7696-12-0  | 2.4 g/l | 18           |
| PERMETHRIN (ISO)   | 52645-53-1 | 2.5 g/l | 18           |

Product-type 18 : Insecticides, acaricides and products to control other arthropods.

### 15.2. Chemical safety assessment

No data available.

## SECTION 16 : OTHER INFORMATION

### Wording of the phrases mentioned in section 3 :

|      |   |
|------|---|
| H220 | Extremely flammable gas.                              |
| H225 | Highly flammable liquid and vapour.                   |
| H226 | Flammable liquid and vapour.                          |
| H302 | Harmful if swallowed.                                 |
| H304 | May be fatal if swallowed and enters airways.         |
| H315 | Causes skin irritation.                               |
| H317 | May cause an allergic skin reaction.                  |
| H319 | Causes serious eye irritation.                        |
| H332 | Harmful if inhaled.                                   |
| H335 | May cause respiratory irritation.                     |
| H336 | May cause drowsiness or dizziness.                    |
| H351 | Suspected of causing cancer .                         |
| H371 | May cause damage to organs .                          |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects.    |

**DIGRAIN CONTROL**

EUH066

Repeated exposure may cause skin dryness or cracking.

**Abbreviations and acronyms :**

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.  
LC50 : The concentration of a test substance resulting in 50% lethality in a given period.  
EC50 : The effective concentration of substance that causes 50% of the maximum response.  
ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.  
LQ : Limited Quantity  
EQ : Excepted Quantity  
EmS : Emergency Schedule  
E : Packing Instruction  
NOEC : The concentration with no observed effect.  
REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.  
ATE : Acute Toxicity Estimate  
BW : Body Weight  
DNEL : Derived No-Effect Level  
PNEC : Predicted No-Effect Concentration  
CMR: Carcinogenic, mutagenic or reprotoxic.  
UFI : Unique formulation identifier.  
STEL : Short-term exposure limit  
TWA : Time-Weighted Average  
TMP : French Occupational Illness table  
VLE : Threshold Limit Value (exposure)  
VME : Average Exposure Value.  
VLRI : Indicative limit value  
VLRC : Indicative constraint value  
ADR : Agreement concerning the international carriage of dangerous goods by road.  
GHS02 : Flame  
GHS07 : Exclamation mark  
GHS09 : Environment  
IATA : International Air Transport Association.  
IMDG : International Maritime Dangerous Goods.  
ICAO : International Civil Aviation Organisation  
PBT: Persistent, bioaccumulable and toxic.  
PIC: Prior Informed Consent.  
POP: Persistent Organic Pollutant.  
RID : Regulations concerning the International carriage of Dangerous goods by rail.  
SVHC : Substances of very high concern.  
WGK : Water Hazard Class.

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The information contained in this safety data sheet is based on our current knowledge at the time of publication and is provided in good faith. It does not constitute any guarantee of specific product properties nor establish any contractual relationship. The user remains solely responsible for safe and compliant use of the product in accordance with current regulations.  
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