

# **Safety Data Sheet**

## **DIGRAIN FORCE**

This version issued: August, 2018

### **1 – IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

#### **DIGRAIN FORCE**

##### **Relevant identified uses of the substance or mixture**

Relevant identified uses: biocidal product

##### **Supplier:**

Lodi UK Ltd  
Building 69 Third Avenue  
Pensnett Trading Estate  
Kingswinford  
DY6 7FD  
United Kingdom  
Telephone : 01384 404242  
Fax: 01384 404656

### **2 – HAZARDS IDENTIFICATION**

##### **Classification of the substance or mixture**

##### **Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Eye Irritant (Category 2)

Acute toxicity Oral (Category 4)

Acute toxicity dermal (Category 4)

STOT SE Respiratory Irritant (Category 3)

STOT RE (Category 2)



Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity (Category 1)

**Labelling of special preparations (GHS):** May cause paraesthesia as this mixture contains Pyrethroids.

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Label elements : Labelling according Regulation (EC) No 1272/2008 [CLP]		
Signal Word : Warning		
  	Hazard statement(s) : H319 H335 H373 H312 H302 H410 EUH 401  Precautionary statement(s) : P261 P262 P264 P270 P271 P280 P404 P405 P305 + P351 + P338  P301 + P310 P302 + P352 P501 P220	Causes serious eye irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. Harmful in contact with skin Harmful if swallowed. Very toxic to aquatic life with long lasting effects. To avoid risks to human health and the environment, comply with the instructions for use. Avoid breathing mist/ vapours/ spray. Do not get in eyes, on skin, or on clothing Wash thoroughly after handling. Do not eat drink or smoke while using this product. Use only outdoors or in a well ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Store in a closed container. Store locked up. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. IF ON SKIN: Wash with plenty of water. Dispose of contents/container in accordance with local regulations. Keep away from clothing or other combustible materials..

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### Chemical nature

Biocidal product

### 3 – COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous ingredients (GHS) according to Regulation (EC) No. 1272/2008

Cypermethrin	
Content (W/W): 10 - 20 % CAS Number: 52315-07-8 EC-No. 257-842-9	Acute toxicity. (Cat 4) (Inhalation - dust) Acute toxicity. (Cat 4) (oral) STOT SE (Cat 3) (respiratory Irritant) STOT RE (Cat 2) Aquatic Acute (Cat 1) Aquatic Chronic (Cat 1) H302, H332, H410, H335, H373

Tetramethrin	
Content (W/W): 1 - 10 % CAS Number: 7696-12-0 EC No.: 231-711-6	Acute aquatic toxicity (Cat 1) Acute chronic toxicity (Cat1) H400, H410

Butyl Diglycol	
Content (W/W): 40 - 50 % CAS Number: 112-34-5 EC No.: 203-961-6 EC Index No.: 603-096-00-8	Eye Irritant (Cat 2 ) H319

Butylated Hydroxytoluene	
Content (W/W): <1 % CAS Number: 128-37-0 EC No. 204-881-4	Chronic aquatic toxicity (Cat 1) H410

Piperonyl butoxide	
Content (W/W): 20 – 30 % CAS Number: 51-03-6 EC No. 200-076-7	Acute aquatic toxicity (Cat 1) Chronic aquatic toxicity (Cat 1) H400, H410

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### **4 – FIRST-AID MEASURES**

#### **Description of first aid measures**

**General information:** Immediately remove any clothing soiled by the product. Symptoms of poisoning may occur even after several hours; therefore medical observation for at least 48 hours after the incident is recommended.

In case of irregular breathing or respiratory arrest provide artificial respiration.

**After inhalation:** In case of unconsciousness place patient in recovery position and get emergency medical advice. Exposure can cause numbness, tingling and weakness in extremities. The chemical, physical and toxicological properties have not been thoroughly investigated.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

#### **After swallowing:**

Rinse mouth. Do not induce vomiting. Call a doctor immediately.

### **5 – FIRE FIGHTING MEASURES**

#### **Extinguishing media**

**Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards arising from the substance or mixture:** Formation of toxic gases may occur if heated such as carbon oxides, nitrogen oxides and hydrogen chloride gas.

**Protective equipment:** Wear self-contained respiratory protective device.

### **6 – ACCIDENTAL RELEASE MEASURES**

**Environmental precautions:** Do not allow to enter sewers/ surface or ground water. Inform appropriate authorities in case of leakage into water course or sewage system.

**Methods and material for containment and cleaning up:** Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

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### **Reference to other sections**

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## **7 – HANDLING AND STORAGE**

### **Handling**

**Precautions for safe handling:** No special measures necessary if handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Avoid contact with skin and eyes and avoid inhalation of vapour or mist.

### **Conditions for safe Storage including incompatibilities**

Store in a cool, dry location. Store only in the original receptacle. Keep container in a well-ventilated place. Keep away from sources of heat.

Store away from foodstuffs. Recommended storage temperature between 15 – 25 DegC.

### **Protection against fire and explosion:**

No special precautions necessary. The product is non-combustible. Product is not explosive.

## **8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION**

### **Exposure controls**

**Personal protective equipment:** Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

### **Hand protection:**

Suitable chemical resistant safety gloves. For example, nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm). Dispose of used gloves in accordance with applicable regulations. The selected protective gloves need to

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satisfy the specifications of EU directive 89/686/EEC and the standard EN374 derived from it.

### **Eye protection:**

Face shield and safety glasses with side-shields approved under EN166(EU) standard.

### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, for example apron, protecting boots, chemical-protection suit.

### **General safety and hygiene measures:**

Handle in accordance with good hygiene and safety practice. Wearing of closed work clothing is recommended. Avoid contact with the skin, eyes and clothing. Store work clothing separately.

## **9 – PHYSICAL AND CHEMICAL PROPERTIES**

Form: Liquid

Colour: Non coloured

Odour: Slightly aromatic

pH: Not available

B.Pt (Deg. C): Not available

M. Pt. (Deg. C): Not applicable

Flash Point (Deg. C): Not applicable

Auto Ignition Temp (Deg. C): Not applicable

Explosive Properties: Not applicable

Oxidising Properties: Not applicable

Vapour Pressure (mm Hg): Not available

Solubility (Water): Not applicable

Partition coefficient: Not available

Specific Gravity: Not available

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### **10 – STABILITY AND REACTIVITY**

#### **Reactivity**

Stable under normal conditions.

#### **Chemical stability**

Stable under normal conditions.

**Thermal decomposition / conditions to be avoided:** The formation of toxic gases/vapours may occur if heated.

**Possibility of hazardous reactions:** No dangerous reactions known.

**Conditions to avoid:** Heat.

**Incompatible materials:** None known.

### **11 – TOXICOLOGICAL INFORMATION**

The toxic effects of Cypermethrin and Tetramethrin are given in sections 2 and 3. Cypermethrin is classified by the WHO as Moderately Hazardous (class II) and Tetramethrin is classified as U - Unlikely to present acute hazard in normal use.

#### **The most frequent toxicity symptoms are:**

- Ataxia (uncoordinated movements)
- Hyper reactivity (exaggerated reaction to stimuli)
- Tremor (uncoordinated trembling or shaking movements)
- Paraesthesia (skin sensation of tingling, tickling, prickling)
- Exhaustion (lethargy, fatigue)
- Hyper salivation (drooling)
- Vomiting
- Diarrhoea
- Urinary incontinence

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Long term exposure to cypermethrin may cause liver changes.

### **Skin corrosion/irritation**

Can cause skin irritation in susceptible people. However the product is harmful in contact with the skin.

### **Serious eye damage/eye irritation**

Can cause serious eye irritation.

### **Respiratory or skin sensitization**

Can cause respiratory irritation.

### **Germ cell mutagenicity**

No data available.

### **Carcinogenicity**

No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### **Specific target organ toxicity – single exposure**

May cause respiratory irritation.

### **Aspiration hazard**

Aspiration may cause respiratory irritation.

## **12 – ECOLOGICAL INFORMATION**

Cypermethrin and Tetramethrin are broad-spectrum insecticides, which means they kill beneficial insects and animals as well as the targeted insects. Fish are particularly susceptible.

**Persistence and degradability:** No further relevant information available.

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

**Ecotoxicological effects:** Very toxic to fish

### **Additional ecological information:**

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Poses a contamination danger to drinking water.

Also very toxic to other aquatic organisms such as plankton.



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### **Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects:** No further relevant information available.

## **13 – DISPOSAL CONSIDERATIONS**

### **Waste treatment methods**

#### **Recommendation**

Do not allow product to reach sewage system.

#### **European waste catalogue**

The waste disposal key number from EWC is 20 01 19 (pesticides).

**Recommendation:** Dispose of in accordance with national regulations.

**Contaminated packaging:** Dispose of as unused product.

## **14– TRANSPORT INFORMATION**

### **ADR/RID**

**UN Number:** UN3082

**Class:** Class 9

**Packing group:** Packing group III

**Hazard ID:** 90

**Proper shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S.  
(contains Cypermethrin, Tetramethrin and Piperonyl butoxide)

### **IMDG**

**UN Number:** UN3082

**Class:** Class 9

**Packing group:** Packing group III

Marine Pollutant

**EMS Code:** F-A, S-F

**Proper shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S.  
(contains Cypermethrin, Tetramethrin and Piperonyl butoxide)

### **IATA/ICAO**

**UN Number:** UN3082

**Class:** Class 9

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**Packing group:** Packing group III

**Proper shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S.  
(contains Cypermethrin, Tetramethrin and Piperonyl butoxide)

### **15– REGULATORY INFORMATION**

To avoid risks to man and the environment, comply with the instructions for use.

The data should be considered when making any hazard assessment.

This product may be subject to the SEVESO II and SEVESO III European regulations.

#### **Classification and labelling according to Regulation:**

(EC) No 1272/2008 [EU-GHS/CLP]

### **16– OTHER INFORMATION**

For proper and safe use of this product, please refer to the product label.

Full text of the classifications, including the indication of danger, the hazard symbols and the hazard statements, if mentioned in section 2:

Signal word: Warning

- Chronic aquatic toxicity (Category 1) – Warning - Environmentally Damaging label
- Acute aquatic toxicity (Category 1) – Warning – Environmentally Damaging label
- STOT SE Respiratory Irritant (Category 3) – Warning – Exclamation Mark
- Acute toxicity, Oral (Category 4) – Warning - Exclamation Mark label
- Eye Irritant (Category 2) – Warning - Exclamation Mark label
- Acute toxicity dermal (Category 4) – Warning - Exclamation Mark label

H319 Causes serious eye irritation.

H312 Harmful in contact with skin.

H335 May cause respiratory irritation.

H302 Harmful if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

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

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### **Abbreviations:**

ADR: European agreement concerning the international carriage of dangerous goods by Road.

IMDG: International Maritime Dangerous Goods.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail.

STOT: Specific Target Organ Toxicity

WHO: World Health Organisation

EU: European Union

PBT: Persistent, Bioaccumulative and Toxic

vPvT: very Persistent and very Bioaccumulative

SEVESO: The main piece of EU legislation that deals specifically with the control of on-shore major accident hazards involving dangerous substances.

H Phrase: Hazard phrase

P Phrase: Precautionary phrase