

Safety Data Sheet

DIGRAIN FORCE

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

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Relevant identified uses of the substance or mixture

Relevant identified uses: biocidal product

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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	Causes serious eye irritation.
	H335	May cause respiratory irritation.
	H373	May cause damage to organs through prolonged or repeated exposure.
	H312	Harmful in contact with skin
	H302	Harmful if swallowed.
	H410	Very toxic to aquatic life with long lasting effects.
	EUH 401	To avoid risks to human health and the environment, comply with the instructions for use.
	Precautionary statement(s) :	
	P261	Avoid breathing mist/ vapours/ spray.
	P262	Do not get in eyes, on skin, or on clothing
	P264	Wash thoroughly after handling.
P270	Do not eat drink or smoke while using this product.	
P271	Use only outdoors or in a well ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P404	Store in a closed container.	
P405	Store locked up.	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.	
P302 + P352	IF ON SKIN: Wash with plenty of water.	
P501	Dispose of contents/container in accordance with local regulations.	
P220	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): 15.7 % 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): 5.2 % 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: CO₂, 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

Exclusion of liability:

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