

PYREGREEN 5.0

MATERIAL SAFETY DATA SHEET

according to the regulation 878/2020 - Revision 10.0 of 8 May 2023

SECTION 1: Identification of the preparation

1.1 – Product details

Trade name: PYREGREEN 5.0

The product does not contain nanoforms

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

Concentrated insecticide for domestic and civil use. Not applicable in other uses than the uses identified.

1.3 – Details of the supplier of the safety data sheet

ORMA S.r.l. – via A. Chiribiri 2 – 10028 TROFARELLO (TO). Tel +39/011/6499064 Fax +39/011/6804102.
Qualified technician on drafting the MSDS: regulatory@ormatorino.it

1.4 – Emergency telephone number:

+39/011.6499064 (ORMA, office hours)

For urgent information, **call a Poison Centre** opened 24 hours a day (ex. Centro Antiveleni Ospedale Niguarda, Milano +39/02.66101029)



Romania: National Institute for Public Health, Ministry of Health, T. +40213183606, infotox@insp.gov.ro

SECTION 2: Hazards identification

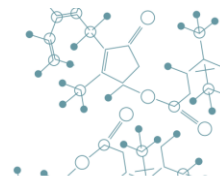
2.1 – Classification of the substance or mixture

The product is classified as dangerous according to Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments). Consequently, the product requires a safety data sheet in compliance with the Regulation (EC) 1907/2006 and subsequent amendments. Additional information regarding risks to health and / or the environment are given in sect. 11 and 12 of this sheet.

Classification according the CLP Regulation N. 1272/2008 and subsequent modifications and adjustments.

Classification	Serious eye damage/eye irritation; Hazardous to the aquatic environment; Skin sensitization
	Category 1; Category 1; Category 1
GHS Pictograms	GHS05 GHS09  
Signal Word	DANGER
Hazard Statement	H317 H318 H400 H410
Supplemental hazard information	---

2.2 – Label elements



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Hazard labelling of the preparation according to CLP Regulation N. 1272/2008 and subsequent modifications and adjustments

GHS05

GHS09



Warnings: DANGER

Hazard statements (H):

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H410: Very toxic to aquatic life with long lasting effect.

Precautionary statements (P):

P101 – If medical advice is needed, have product container or label at hand.

P102 – Keep out of reach of children.

P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 – Contaminated work clothing should not be allowed out of the workplace.

P273 – Avoid release to the environment.

P280 – Wear protective gloves, protective clothing, eye protection, face protection.

P363 – Wash contaminated clothing before reuse.

P391 – Collect spillage.

P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.

P305+351+338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P310 – Immediately call a POISON CENTER or a doctor.

P333+P313 – If skin irritation or rash occurs: Get medical advice/attention.

P501 – Dispose of the product or container in a collection point for hazardous or special waste.

2.3 – Other hazards

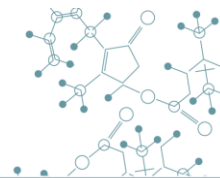
Not available information

SECTION 3: Composition/information on ingredients

3.1 – Substances: Not pertinent information.

3.2 – Mixture: It contains

Name	Registration number	CAS N°	EINECS N°	Index N°	CLP Classification	%
CHRYSANTHEMUM CINERARIAEFOLIUM extract from open and mature flowers of Tanacetum cinerariifolium obtained with supercritical	N.A.	89997-63-7	289-699-3	N.A.	Ac. Tox. 4 H302 Ac. Tox. 4 H332 Skin Sens. 1B H317 Aq. Acu. 1 H400 Aq. Chr. 1 H410	5,0



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carbondioxide (technical 50%)						
PETROLEUM DISTILLATES	N.A.	64742-47-8	265-149-8	649-422-00-2	Asp. Tox. 1 H304	< 5
BUTYLHYDROXYTOLUENE (BHT)	N.A.	128-37-0	204-881-4	N.A.	Oral Ac. Tox. 4 H302 Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335 Aqua. Acu. 1 - H400 Aqua. Chr. 1 - H410	< 1
DOCUSATE SODIUM	01-2119491296-29-XXXX	577-11-7	209-406-4	N.A.	Skin Irrit. 2 H315 Eye Dam. 1 H318	< 15

The full text of Risk phrases (R) and Hazards (H) is specified in section 16.

SECTION 4: First-aid measures

4.1 – Description of first-aid measures

General information: if symptoms persist, seek medical care, giving the information contained in the label and in this sheet. In case of accident, the first-aid measure should be performed by trained personnel, in order to avoid the injured further complication or damages.

After eye contact: Rinse opened eye for at least 10 minutes plentifully under running water therefore protect dry eyes with sterile gauze or a clean handkerchief. SEEK MEDICAL ADVICE.

After skin contact: Take off immediately all contaminated clothing, wash with plentiful running water all contaminated body areas which came in contact with the product. Usually the product is not irritant.

After inhalation: move the patient to fresh air; get medical advice if necessary.

After swallowing: get medical advice, showing the safety sheet. Do not induce vomiting to avoid the risk of aspiration into the respiratory tract.

4.2 – Main symptoms and effects, both acute and retarded

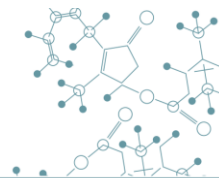
For symptoms and effects caused by the substances see section 11.

4.3 – Indications about the possible need to get medical advice and special treatments

In case of accident, get medical advice (if possible show the instructions of use or the material safety data sheet). Treatment: none

SECTION 5: Fire-fighting measures

5.1 – Extinguishing agents:



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Suitable extinguishing agents: CO₂, dry chemical extinguisher, sand.

Unsuitable extinguishing agents: Water with full jet. Water is not effective for fire-extinguishing, however it can be used to cool down containers exposed to flames, in order to prevent bursts and explosions.

5.2 – Special hazards arising from the substance or mixture

Particular fire dangers: do not inhale gas produced by explosion and combustion. Combustion produces heavy smoke.

5.3 – Advice for firefighters

Protective equipment: Wear suitable rebreather (especially in indoor locals) and complete protection outfit.

Special procedures: Collect separately contaminated water used to extinguish the fire. Not be discharged into drains. Danger Containers undamaged.

SECTION 6: Accidental release measures

6.1 – Personal precautions, protective equipment and emergency procedures

Use suitable personal protective equipment (see section 8). Ensure adequate ventilation.

6.2 – Environmental precautions

Keep the product away from sewers, fluvial and marine water to avoid environmental pollution (in that case, inform respective authorities).

6.3 – Methods and material for containment and cleaning up

Dam spillage with soil or sand. Collect mechanically or absorb with inert material (sand or vermiculite). Store the residues in suitable containers for recycling or for final disposal in collection points, in accordance with applicable local laws. Wash away the last traces with abundant water.

6.4 – Reference to other sections

Further information regarding individual protection and disposal are reported in section 8 and 13.

SECTION 7: Handling and storage

7.1 – Precautions for safe handling

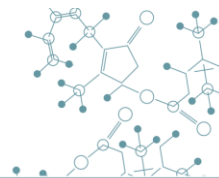
Avoid eye and skin contact, vapours and fogs inhalation. Use suitable protective clothes (see Section 8). Wash with water and soap after handling; ensure good ventilation of the workplace.

7.2 – Conditions for safe storage, including any incompatibilities

Store in the original tightly sealed receptacle, away from food and beverages and away from the reach of children and domestic animals.

7.3 – Specific end use(s)

No further relevant information available.



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SECTION 8: Exposure controls/personal protection

8.1 – Control parameters

Name	Values
CHRYSANthemUM CINERARIAEFOLIUM	TWA: ACGIH 1 mg/m ³ (8 ore)
DOCUSATE SODIUM	PNEC Target: Fresh water - Value: 0.0066 mg/l Target: Sea water - Value: 0.00066 mg/l Target: Sediment freshwater - Value: 0,653 mg/kg Target: Sediment seawater - Value: 0.0653 mg/kg DNEL Industrial worker: 313 mg/kg - Exposure: Oral Human - Frequency: Long term, systemic effects. Industrial worker: 44.1 mg/m ³ - Consumer: 13 mg/m ³ - Exposure: Inhalation Human - Frequency: Long term, systemic effects. Consumer: 18.8 mg/kg - Exposure: Dermal Human - Frequency: Long term, systemic effects.

8.2 – Exposure controls

General protective measures:

Use the preparation according the indication contained in this safety sheet. Use individual protective devices recommended in this section.

Respiratory protection:

In not so ventilated environments, where high percentage of product could be present, protect adequately the respiratory tract (mask with suitable filter against gas and solvents).

Protection of hands:

Use impermeable and chemical substances resistant gloves (EN 374).

Eye protection:

Use safety glasses with side protection, in case of possible contact to eyes.

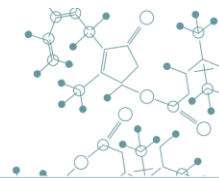
Body protection:

Use protective coats.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

Form:	Liquid
Color:	Pale yellow
Odor:	Characteristic
pH:	6.5
Melting point/freezing point:	<0°C
Initial boiling point and boiling range:	>100°C
Flash point:	N.A.



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Evaporation rate:	N.A.
Flammability (solid, gas):	Not flammable
Upper/lower flammability or explosive limits:	N.A.
Vapour pressure:	N.A.
Vapour density:	N.A.
Relative density:	0.889 g/ml
Solubility:	In water
Partition coefficient: n-octanol/water:	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Viscosity:	N.A.
Explosive properties:	N.A.
Oxidising properties:	N.A.

9.2 Other Information

9.2.1. Information relating to classes of physical hazards

Information not available.

9.2.2. Other security features

Explosive Properties: Not explosive.

SECTION 10: Stability and reactivity

10.1 – Reactivity

Not particular reactivity danger with other substances under normal operating conditions.

10.2 – Chemical Stability

Stable under normal operating and storage conditions.

10.3 – Possibility of hazardous reactions

No dangerous reactions known.

10.4 – Conditions to avoid

Stable under normal conditions.

10.5 – Incompatible materials

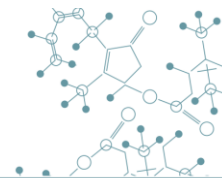
No further relevant information available.

10.6 – Hazardous decomposition products

None.

SECTION 11: Toxical information

11.1 – Information on toxicological effects



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No toxicological data available on the mixture. The toxicological information below relating to the main substances in the preparation:

Toxicological data:

Substance identifier	Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity
Chrysanthemum cinerariaefolium	LD50 Rat: 1030 mg/kg	LD50 Rabbit >2000mg/kg	LC50 Rat > 2,3 mg/l 4h

-SKIN CORROSION/IRRITATION

Not irritating.

-SERIOUS EYE DAMAGE/IRRITATION

Not irritating.

-RESPIRATORY SENSITISATION

Not sensitising.

- SKIN SENSITISATION

Sensitising. Local Lymph Nodes Assay (LLNA).

-GERM CELL MUTAGENICITY

Negative.

-CANCEROGENICITY

No evidence of carcinogenicity in animal studies.

-REPRODUCTIVE TOXICITY

No evidence of reproductive toxicity in animal studies.

-STOT SE

N.A.

-STOT RE

N.A.

-ASPIRATION HAZARD

May be fatal if swallowed and enters airways.

Substance identifier	Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity
Docusate Sodium	LD50 Rat >3000 mg/kg	LD50 Rat =2000mg/kg	N.A.

-SKIN CORROSION/IRRITATION

Irritating to the skin.

-SERIOUS EYE DAMAGE/IRRITATION

Irritating to the eyes.

-RESPIRATORY OR SKIN SENSITISATION

N.A.

-GERM CELL MUTAGENICITY

N.A.

-CANCEROGENICITY

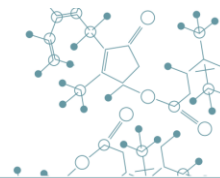
N.A.

-REPRODUCTIVE TOXICITY

N.A.

-STOT SE

N.A.



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-STOT RE

N.A.

-ASPIRATION HAZARD

N.A.

11.2. Information about other hazards

11.2.1. Endocrine disrupting properties

Adverse Health Effects Caused by Endocrine Disrupting Properties:

The mixture does not contain a substance(s) included in the list established in accordance with Article 59(1) of REACH as having endocrine disrupting properties, or is not identified as having endocrine disrupting properties according to the criteria established by Commission Delegated Regulation (EU) 2017/2100 or by Commission Regulation (EU) 2018/605 in concentrations equal to or greater than 0.1%

11.2.2 Other Information

N.A.

SECTION 12: Ecological information

The mixture is very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.1 – Toxicity

2.7 TOXICITY

Substance	Species	Time scale	Final point	Toxicity
FISH				
Chrysanthemum cinerariaefolium, ext	Oncorhynchus mykiss	96 h	LC50	5,2 µg/l
Docosate Sodium	Fish	24 h	LC50	48 mg/l
		48 h	LC50	369 mg/l
INVERTEBRATES				
Chrysanthemum cinerariaefolium, ext	Daphnia magna	48 h	EC50	12 µg/l
	Mysid shrimp	96 h	EC50	1,4 µg/l
Docosate Sodium	Daphnia magna	24 h	EC50	24.8 mg/l
ALGAE				
Docosate Sodium	N.A.	72 h	EC50	39.3 mg/l

12.2 – Persistence and degradability

Chrysanthemum cinerariaefolium: Not easily biodegradable. Photodegradable.

Docosate Sodium: N.A.

12.3 – Bioaccumulative potential

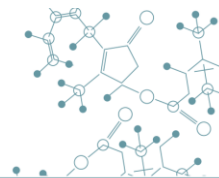
Chrysanthemum cinerariaefolium: BCF: 471 Lepomis macrochirus – log Pow > 4

Docosate Sodium: N.A.

12.4 – Mobility in soil

Chrysanthemum cinerariaefolium, ext: readily absorbed in soil.

Docosate Sodium: N.A.



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12.5 – Results of PBT and vPvB assessment

Does not contain any substances classified as PBT or vPvB.

12.6 Endocrine-disrupting properties

Adverse effects on the environment caused by endocrine-disrupting properties:

The mixture does not contain a substance(s) included in the list established in accordance with the Article 59(1) of REACH for possessing endocrine disrupting properties, or is not identified as having endocrine disrupting properties according to the criteria established by the Delegated Regulation (EU) 2017/2100 of the Commission or by Regulation (EU) 2018/605 of the Commission in concentrations equal to or greater than 0.1%.

12.7 – Other adverse effects

N.A.

SECTION 13: Disposal consideration

13.1 – Waste treatment methods

General recommendation: Recover if possible. Operate according to local and national dispositions in force. Containers, even if completely emptied, must not be released to the environment. If they contain residues, they must be classified, stored and sent to an appropriate waste management plant. For a non-professional use the completely empty container can be disposed with household garbage, according to the local dispositions for waste separation.

Classification: The classification of waste is an obligation of the manufacturer of the same. ERC recommended code : 07 04 13 (solid wastes containing dangerous substances), 16 03 05 (organic waste containing dangerous substances).

SECTION 14: Transport information

14.1 – UN number

UN 3082

14.2 – UN proper shipping name

MATERIAL ENVIRONMENTALLY HAZARDOUS SUBSTANCE, liquid N.A.S. Contains (Chrysanthemum cin.)

14.3 – Transport hazard class(es)



Class: 9

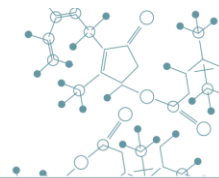
14.4 – Packing group

III

14.5 – Environmental hazards

Marine pollutant

14.6 – Special precautions for user



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A97, A158, A197

14.7 – Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

SECTION 15: Regulatory information

15.1 – Specific standards and legislation on health, safety and environment for the preparation/substance

Substances in Candidate List (Art. 59 REACH): None

Restrictions on the product or the substances contained according to EC-Regulation 1907/2006 Enclose XVII:None

Substances subject to authorization (REACH Enclose XIV):None.

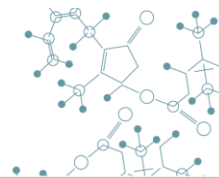
Sanitary controls: Workers exposed to this health hazardous chemical agent should undergo to health surveillance performed according to the dispositions of Art. 41 of the proposed Law 81, April 2008, unless risks for safety and health of the workers has been assessed irrelevant, as provided for Art. 224, paragraph 2.

Seveso Category: 7b, 9i.

Regulations:

- Regulation (CE) 1272/2008 of European Parliament (CLP);
- Direttiva 98/24/CE - D.Lgs 81/2008;
- Regulation (CE) 1907/2006 (REACH);
- Regulation (CE) 790/2009 of European Parliament (I Atp. CLP);
- Regulation (CE) 453/2010 of European Parliament;
- Banca dati sulle sostanze GESTIS – IFA (Institute für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung).
- Regulation (CE) 830/2015 of European Parliament
- Regulation (UE) 1179/2016 (9° ATP CLP);
- Biocidal Products Committee (BPC) opinion June 2016
- The E-Pesticide Manual Versione 2.1 (2001)
- Directive 2006/8/CE
- Regulation 1907/2006/CE
- Regulation (CE) 1272/2008
- Regulation (CE) 2016/918
- Regulation (UE) 528/2012
- Regulation (CE) 790/2009 (1° ATP CLP)
- Regulation (UE) 286/2011 (2° ATP CLP)
- Regulation (UE) 618/2012 (3° ATP CLP)
- Regulation (UE) 487/2013 (4° ATP CLP)
- Regulation (UE) 944/2013 (5° ATP CLP)
- Regulation (UE) 605/2014 (6° ATP CLP)
- Regulation (UE) 1221/2015 (7° ATP CLP)
- Regulation (UE) 918/2016 (8° ATP CLP)
- Regulation (UE) 918/2016 (8° ATP CLP)
- Regulation (UE) 1179/2016 (9° ATP CLP)
- Regulation (UE) 776/2017 (10° ATP CLP)
- Directive 2012/18/UE (Seveso III)

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15.2 – Chemical safety assessment

A chemical safety assessment for the product has been not elaborated.

SECTION 16: Other information

General information: The information provided on this Safety Data Sheet corresponds to the present state of our knowledge and our experience of the product and is not exhaustive. Save indications to the contrary applies to the product as such and complies with the specifications. In case of combinations or mixtures, make sure that no new dangers can arise. It is user's responsibility to ensure the suitability and completeness of the information in relation to the particular use to which it is needed. For more information about the mixture see the label affixed to the package.

Text of hazard (H) indications mentioned in section 2-3 of the sheet

Aquatic Acute 1 – Hazardous to the aquatic environment, acute toxicity, Category 1
Aquatic Chronic 1 – Hazardous to the aquatic environment, chronic toxicity, Category 1
Asp. Tox. 1 – Aspiration hazard, Category 1
Eye Dam.1 – Eye Damage, Category 1
Eye Irr.2 – Eye Irritation, Category 2
Acute Tox. Inhalation 4 – harmful if inhaled, Category 4
Acute Tox. Oral 4 – harmful if swallowed, Category 4
Skin Sensitisation 1B – sensitizing for the skin, Category 1
Skin Irritation 2 – irritating for the skin, Category 2
STOT SE 3 - Specific target organ toxicity – single exposure, Category 3
STOT RE 2 - Specific target organ toxicity – repeated exposure, Category 2

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Notes (section 8):

TLV-TWA (Threshold Limit Value –Time Weighted Average): limit values weighted in 8 hours. **TLV-STEL** (Threshold Limit Value – Short Tim Exposure Limit). **ACGIH** (American Conference of Governmental Industries Hygienists).

Modify sections: 2, 3, 11, 12 ,16.

This sheet cancels and replaces all previous versions.