

MATERIAL SAFETY DATA SHEET

drawn up in accordance with the Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 on REACH (Official Journal of the European Union L 133/1 as of 31.05.2010)

Created: 2018-08-31

Updated: -

Version: 1.0 EN

PROAGRO 125 SL

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

1.1. Product identifier

PROAGRO 125 SL

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

Biocidal product, insecticide.

Liquid concentrate intended to combat flying insects: mosquitoes and flies in rooms.

Uses advised against: any other use transgressed the label-instructions for use of the product.

1.3. Details of the supplier of the safety data sheet

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Person responsible for the data sheet: SDS@bestpest.com.pl

1.4. Emergency telephone number

European Emergency Number 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Physical and chemical hazards:

Mixture is not classified as dangerous.

Health hazards:

Acute toxicity (oral), Hazard Category 4 (**Acute Tox.4**)

H302 Harmful if swallowed.

Serious eye damage, Hazard Category 1 (**Eye Dam.1**)

H318 Causes serious eye damage

Environment hazards:

Hazardous to the aquatic environment - Acute Hazard, Category 1 (**Aquatic Acute 1**)

H400 Very toxic to aquatic life.

Hazardous to the aquatic environment - Chronic Hazard, Category 1 (**Aquatic Chronic 1**)

H410 Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Pictogram:



WARNING

Hazard phrases:

H302 Harmful if swallowed.

H318 Causes serious eye damage.

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H410 Very toxic to aquatic life with long lasting effects.

Safety phrases

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P501 Dispose of contents/container to an authorized hazardous waste disposal plant or to a collection point dangerous waste.

2.3. Other hazards: does not contain substances identified as meeting the criteria for PBT or vPvB.

SECTION 3: Composition / Information on ingredients

3.2. Mixtures

Name: **Dipropylene glycol monomethyl ether**

Contents: < 40 %

EC No: 252-104-2

No CAS: 34590-94-8

Annex I Index none

Classification: not classified as dangerous
NDS and NSDSch – see Section 8.

Name: **Alcohols, C6-12, ethoxylated**

Contents: < 25 %

EC No: none

No CAS: 68439-45-2

Annex I Index none

Classification: Acute Tox. 4 H302, Eye Dam. 1, H318

Name: **Benzyl Benzoate**

Contents: < 15 %

EC No: 204-402-9

No CAS: 120-51-4

Annex I Index 607-085-00-9

Classification: Acute Tox. 4 H302, Aquatic Chronic 2 H411

Name: **Imidacloprid / 1-(6-chloropyridin-3-ylmethyl)-N-nitroimidazolidin-2-ylidenamine**

Contents: 100 g/l

EC No: 428-040-8

No CAS: 138261-41-3

Annex I Index 612-252-00-4

Classification: Acute Tox. 4 H302; Aquatic Acute 1 H400, Aquatic Chronic 1 H411

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Name: **Cypermethrin** cis/trans +/- 40/60 / (S)- α -cyano-3-phenoxybenzyl-(1R)cis-trans-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

Contents: 25 g/l

EC No: 257-842-9

No CAS: 52315-07-8

Annex I Index 607-421-00-4

Classification: AcuteTox. 4 H302 H332; STOT SE 3 H335; Aquatic Acute 1 H400, Aquatic Chronic 1 H410

Reference to other sections: the complete text of phrases is in Section 16 of the data sheet.

SECTION 4: First aid measures

4.1. Description of first aid measures

Eye contamination

Wash eye with appropriate eye wash or with pure water for at least 15 minutes, keep eyelids open. Consult a doctor – an ophthalmologist.

Inhalation

Remove victim from exposed area, provide fresh air and keep at rest. In case of disturbing complaints, consult a doctor.

Skin contamination

Take off all the contaminated clothing. Exposed skin should be poured richly with water. In case of long-term irritation, consult a doctor.

Swallowing

Do not draw vomits. Rinse the mouth with water and next drink much water. Do never give anything to unconscious person. Call the doctor immediately, show product label.

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

Headaches or dizziness, nausea, vomits, asthmatic symptoms.

In case of eye contact, product can cause rough irritation or even eye damage; in prolonged contact with skin, there can be irritation or allergy reaction.

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

Cypermethrin is a sodium channel toxins, lowers the threshold of sensory nerve stimulation and prolonged neuronal stimulation.

Antidote - none. Apply symptomatic treatment.

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SECTION 5: Firefighting measures

General recommendations

Remove unauthorized persons that do not participate in fire fighting from the area of danger. Remove sources of ignition, do not smoke. If necessary, call Fire Brigade. Do not allow to enter drains, water bodies and watercourses.

5.1. Extinguishing media

Proper extinguishing media

Foam, carbon dioxide (CO₂), dry powder extinguishers or water mist.

Improper extinguishing media

Do not extinguish with strong stream of water.

5.2. Special hazards arising from the substance or mixture

As a result of fire may form toxic gases and vapors: carbon oxides (CO, CO₂), nitrogen oxides (NO_x).

5.3. Advice for firefighters

Wear protective clothing and self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

a) for people who do not belong to giving aid staff:

Remove unauthorized persons that do not participate in eliminating the failure. Remove sources of ignition, do not smoke. If necessary, call Fire Brigade.

Avoid skin and eye contact. Avoid inspiring steam.

b) for people providing help

Use protective clothing, gloves (rubber, latex, nitrile) and in case of large contamination also protective glasses and respiratory protection (half masks with P1 type filter)

6.2. Environmental precautions:

Do not empty into drains. Avoid contamination of surface- and groundwater.

In the case of contaminating rivers or lakes notify the appropriate emergency services.

6.3. Methods and materials for containment and cleaning up

Secure the area for the time of eliminating the failure.

Collect damaged packaging and put them in replacement packaging. Cover the spill with absorbent material (e.g. dry sand, sawdust), collect to waste container and label. Wash the place of failure after gathering whole material, ventilate the room.

6.4. Reference to other sections

Dispose of in accordance with Section 13 of the data sheet.

Wear personal protection in accordance with Section 8 of the data sheet.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Follow the rules and Health and Safety at Work regulations related to work with chemicals.
Avoid inspiring steam. Avoid skin and eye contamination.

Do not eat, drink or smoke during using the product. Wash hands with water and soap after finishing work. Take off contaminated clothing and self-contained breathing apparatus before entering places of eating meals.

Personal Protection Equipment - see item 8.

7.2. Conditions for safe storage, including any incompatibilities

Store in an original, tightly closed packaging in a well-ventilated, dry compartment in temperature not below 5°C and not higher than 30°C. Keep away from children. Do not store with food, drinks and animal fodder.

7.3. Specific end use(s)

Biocidal product, insecticide in concentrate form, intended to control flying insects: mosquitoes and flies in flats and houses, in rooms of public buildings, and also in rooms of rural farms, livestock buildings (henhouse, cages, rooms for animals) and in warehouses.

SECTION 8: Exposure controls /personal protection

8.1. Control parameters

NDS – 240 mg/m³ (dipropylene glycol monomethyl ether)

NDSch - 280 mg/m³ (dipropylene glycol monomethyl ether)

Regulation of Minister of Labour and Social Policy dated 06 June 2014 on maximum allowable concentrations and levels of harmful factors in the working environment (J.o.L. No. 817).

8.2. Exposure control

8.2.1. Appropriate engineering controls: ventilation of rooms

8.2.1 Personal Protection Equipment:

a) Eyes or face protection

use protective goggles/faceguard during spraying

b) Skin protection

Hand skin protection: use protective gloves (resistant to liquids, eg. nitrile, rubber, latex)

Other: use protective clothing during spraying (shoes and protective shoes)

c) Respiratory protection

do not inspire working liquid, it is recommended to use personal respiratory protection during spraying (eg. Half masks with P1 type of filter)

d) Thermal hazards:

none

8.2.2. Environmental exposure control:

use suitable containers that protect the environment against contamination

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	lucid liquid, colour from light-yellow to yellow
Odour:	characteristic, chemical
Odour threshold:	undefined
pH:	5,0 – 8,0
Melting/freezing point:	approx. 0°C
Initial boiling point and range of boiling temperatures:	above 100°C
Flash point:	<i>undefined</i>
Evaporation rate:	<i>undefined</i>
Flammability:	<i>not applicable</i>
Upper/lower flammability limit:	<i>not applicable</i>
Vapour pressure:	<i>undefined</i>
Vapour density:	<i>undefined</i>
Bulk density:	1.085 – 1.105 g/ml in 20°C temperature
Solubility:	with water gives a suspension
Log Kow:	log P _{o/w} for imidacloprid: 0,57 (21°C) cypermethrin: 5.3 – 5.6;
Autoignition point:	undefined
Breakdown temperature:	undefined
Viscosity:	undefined
Explosive properties:	none
Oxidizing properties:	none
9.3. Other information	undefined

SECTION 10: Stability and reactivity

10.1. Reactivity

In case of storage and handling in acc. with destination - not given.

10.2. Chemical stability

Stable mixture in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

In normal conditions of use and storage - none.

10.4. Conditions to avoid

Temperatures out of the scope intended for storage.

10.5. Incompatible materials

Strong oxidants, alkaline or strongly acidic materials.

10.6. Hazardous decomposition products:

Undefined

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.2 Mixtures

Lack of toxicological tests for ProAgro 125 SL:

Acute toxicity: Based on available data, ProAgro 125 SL was classified as oral acute toxicity hazard category 4.

Skin corrosion/irritation: lack of tests for ProAgro SL, based on available data, classification criteria are not met.

Serious eye damage/ irritation: based on available data, classified as causing serious eyes damage.

Respiratory or skin sensitization: lack of tests for ProAgro 125 SL, based on available data, classification criteria are not met.

Germ cell mutagenicity: lack of tests for ProAgro 125 SL, based on available data, classification criteria are not met.

Carcinogenicity: lack of tests for ProAgro 125 SL, based on available data, classification criteria are not met.

Reproductive toxicity: lack of tests for ProAgro 125 SL, based on available data, classification criteria are not met.

STOT - single exposure: lack of tests for ProAgro 125 SL, based on available data, classification criteria are not met

STOT - repeated exposure: lack of tests for ProAgro 125 SL, based on available data, classification criteria are not met

Aspiration hazard: lack of tests for ProAgro 125 SL, based on available data, classification criteria are not met

Data for active substance imidacloprid:

Acute toxicity

Acute oral toxicity: LD₅₀ (rat) 450 mg/kg b.m.

Acute dermal toxicity: LD₅₀ (rat) >5000 mg/kg b.m.

Acute inhalation toxicity: LC₅₀/24h(rat) > 5.33 mg/l (dust), > 0.069 mg/L (aerosol)

Skin irritation: slightly irritant (rabbit)

Eye irritation: slightly irritant (rabbit)

Data for active substance cypermethrin:

Acute toxicity

Acute oral toxicity: LD₅₀ (rat) 287 mg/kg b.m. [Review report SANCO /4333/2000]

Acute dermal toxicity: LD₅₀ (rat) >2000 mg/kg b.m. [Review report SANCO /4333/2000]

Acute inhalation toxicity: LC₅₀(rat) 3.28 mg/l [Review report SANCO /4333/2000]

Skin/corrosion irritation: not irritant [lit. data]

Serious eye damage/irritation: not irritant [lit. data]

Information on likely routes of exposure

Skin Contamination: irritation, skin redness, allergy reaction

Eye Contamination: may cause irritation or even eye damage

Inhalation: pain or dizziness, runny nose

Ingestion: nausea, vomits

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SECTION 12: Ecological information

12.1. Toxicity

No eco-toxicological tests of PROAGRO 125 SL

Eco-toxicological data for active substance imidacloprid

fish: LC₅₀/96h - 211 mg/l (rainbow trout), LC₅₀/96h - 237 mg/l (ide -cyprinidae)
daphnia: EC₅₀/48h - 85 mg/l (*Daphnia magna*);
algae: E_rEC₅₀ >100 mg/l (*Selenastrum capricornutum*)
birds: LD₅₀ 31 mg/kg m.c (*Coturnix japonica*),

Eco-toxicological data for active substance cypermethrin

fish: rainbow trout: LC₅₀/96h 0.0083 mg/l, Bluegill sunfish LC₅₀/96h - 0.0018 mg/l
daphnia: EC₅₀/48h 0.0002 mg/l
algae: EC₅₀/72h 0.2 mg/l⁻¹ *Selenastrum capricornutum*
birds: LD₅₀ (mallard ducks) > 4640 mg/kg
soil organisms: EC₅₀ > 100 mg/kg soil

12.2. Persistence and degradability: lack of data for this mixture

Cypermethrin

pH 3 (water) : cis : DT₅₀ = 1302 d at 25 °C, trans : DT₅₀ = 923 d
pH 7 (water): cis : DT₅₀ = 221 d, trans : DT₅₀ = 136 d
pH 8 (river water) : cis : DT₅₀ = 21.2 d, trans : DT₅₀ = 5.1 d
pH 11 : (water) cis : DT₅₀ = 38 min, trans : DT₅₀ = 23 min [Review report SANCO /4333/2000]

Cypermethrin is not readily biodegradable.

Cypermethrin - bioconcentration BCF: (BCF fish/*Salmo gairdneri*) 1204 mg/l [Review report SANCO/4333/2000]

Imidacloprid

pH 5 (water) : stable [25 °C]
pH 7 (water) : stable [25 °C]
pH 9 (water) : DT₅₀ = 1 year [25 °C]
DT₅₀ = 2,75 years [12 °C](calculated)

Imidacloprid – fish bioconcentration BCF : 0,61 , BCF soil organisms: 0,88

12.3. Bioaccumulative potential

Cypermethrin – bioconcentration BCF: (BCF ryb/*Salmo gairdneri*) 1204 mg/l [Review report SANCO/4333/2000]

Imidacloprid – fish bioconcentration BCF: 0,61 , BCF soil organisms: 0,88

12.4. Mobility in soil: Cypermethrin is not mobile in soil.

12.5. Results of PBT and vPvB assessment

Mixture do not meet the criteria for PBT or vPvB substances.

12.6. Other adverse effects: no data on other harmful effects

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Wastes disposal

The product and the packaging, which cannot be treated as dangerous waste, should be sent to utilization in a plant with required qualification.

*Group of waste: 07 04 – wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides

* Waste code: 07 04 99 – wastes not otherwise specified

Disposal of used packaging:

Dispose of container to an authorized hazardous waste disposal plant or to a collection point dangerous waste.

*Waste code: 15 01 10 – packaging containing residues of or contaminated by hazardous substances

Waste Act of 14 December 2012

** Regulation of the Minister of the Environment of 9 December 2014 regarding the waste catalogue
Act on the management of packaging and packaging waste of 13 June 2013*

SECTION 14: Transport information

14.1. UN Number	UN 3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, I.N.O.
14.3. Transport hazard class(es)	9
14.4. Packing group	III
14.5. Environmental hazards	environmentally hazardous substance
14.6. Special precautions for users	avoid release to the environment, avoid eye and skin contamination
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code – not applicable	

SECTION 15: Regulatory information

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

Information on the national status of the substance / mixture:

Authorization biocidal product (in Poland) No 5254/ dated 15.04.2013

Legal Regulations:

- Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products,
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006,
- Regulation (EC) no 1907/2006 concerning Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) of 18th December 2006, establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation

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(EC) No 1488/94, as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EEC and 2000/21/EC, as amended,

- Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Act of 25 February 2011 on chemical substances and their mixtures (Journal of Laws from 2011 no 63, item 322)
- Regulation of the Minister of Labour and Social Policy of 6 June 2014 on the highest allowable concentrations and intensities of agents harmful to health in the work environment (Journal of Law 2014, item 817)
- ADR - The European Agreement concerning the International Carriage of Dangerous Goods by Road (in force from January 1st, 2003)

15.2 Chemical safety assessment

A chemical safety assessment was not carried out for this substance.

SECTION 16: Other information

Criteria for the classification of a product (mixture):

- According to the classification criteria for preparations based on the content of hazardous ingredients: in case of physical and chemical hazards **PROAGRO 125 SL** is not classified into any of the hazard categories
- According to the classification criteria for preparations based on the content of hazardous ingredients: in case human risks **PROAGRO 125 SL** is classified as serious eye damage hazard category 1 and acute toxicity cat.4 – harmful if swallowed
- According to the classification criteria for preparations based on the content of hazardous ingredients: in case of environment risk **PROAGRO 125 SL** is classified as very toxic to aquatic life – Acute toxicity cat. 1 – very toxic to aquatic organisms and to aquatic environment, hazard category long lasting effect. Chronic toxicity cat. 1 – very toxic to aquatic life, causing long lasting effect.

Changes made when updating the card:

Update for correction to Regulation 2015/830 of 28 May 2015

Explanation of abbreviations and acronyms:

Hazard statement from Section 3:

Acute Tox 4 – Acute toxicity category 4

STOT SE 3 – Specific target organ toxicity – single exposure cat. 3

Eye Dam 1 – Serious eye damage/irritation category 1

Aquatic Acute 1 – Hazardous to the aquatic environment - Acute toxicity category 1

Aquatic Chronic 1 – Hazardous to the aquatic environment – long lasting effect. Chronic toxicity category 1

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Other abbreviations :

EC - is a number assigned to a chemical substance in the European Inventory of Existing Commercial Chemical Substances (EINECS - called the European Inventory of Existing Chemical Substances) , or the number assigned to a substance in the European List of Notified Chemical Substances (ELINCS - called the European List of Notified Chemical Substances) or number in the list of the chemicals listed in " No-longer polymers" .