

Safety Data Sheet

In accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 (REACH)

ASCYP PBO +

CREATED: 2019-08-14
UPDATE: 2025-04-07
VERSION: 2.2EN

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

1.1. Product identifier

ASCYP PBO +

UFI code: P600-Y03H-700Y-4T8M

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

Biocidal Product - Insecticide.

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

ZPUH „BEST-PEST” Małgorzata Świętosławska, Jacek Świętosławski Spółka Jawna

ul. Moździerzowców 6 B, 43-602 Jaworzno, Poland

Tel.: + 48 (32) 617 75 71, fax: + 48 (32) 615 00 07; e-mail: biuro@bestpest.com.pl

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

1.4. Emergency telephone number

European Emergency Number 112

SECTION 2: Hazard Identification

2.1. Classification of the substance or mixture

Physical and chemical hazards:

The product is not classified under any of the hazard categories.

Health hazards:

The product is not classified under any of the hazard categories.

Environmental hazards:

Aquatic Acute 1: Hazardous to the aquatic environment - acute hazard category. Acute toxicity category 1.

H400: Very toxic to aquatic life.

Aquatic Chronic 1: Hazardous to the aquatic environment - chronic hazard category.

Chronic toxicity category 1. H410: Very toxic to aquatic life with long lasting effects.

2.2. Labeling elements



Pictogram:

Warning

Hazard statements:

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H410 - Very toxic to aquatic life with long-lasting effects.

Precautionary statements:

P102 - Keep out of reach of children.

P262 - Do not get in eyes, on skin, or on clothing.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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

2.3. Other hazards: The mixture does not contain substances meeting the PBT or vPvB criteria according to Annex XIII of the REACH Regulation.

It does not contain substances with endocrine-disrupting properties.

SECTION 3: Composition/information on ingredients

3.1 Substances: Not applicable

3.2. Mixtures

Hazardous ingredients present in the mixture:

pipерonyl butoxide (also known as PBO)

2-(2-butoxyethoxy)ethyl-6-propylpipерonyl ether / PBO

Content: 150 g/l [approx. 15% w/w]

EC No: 200-076-7

CAS No: 51-03-6

Annex I Index: Not assigned

Classification: Aquatic Acute 1 H400, Aquatic Chronic 1 H410

Other data: M=1; M(Chronic)=1

cypermethrin (also known as cypermethrin (ISO) cis/trans +/- 40/60)

(1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate (RS)- α -cyano-3-phenoxybenzyl

Content: 50 g/l (5%)

EC No: 257-842-9

CAS No: 52315-07-8

Annex I: 607-421-00-4

Classification: AcuteTox. 4 H302 H332; STOT SE 3 H335; STOT RE 2 H373; Aquatic Acute 1 H400, Aquatic Chronic 1 H410

Other data: M=100000, M(Chronic)=100000; inhalation: ATE = 3.3 mg/L (dusts/mists)

oral: ATE = 500 mg/kg bw (-)

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prallethrin (also known as prallethrin)

2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate 2-methyl-4-oxo-3-(prop-2-ynyl)cyclopent-2-en-1-yl

Content: 1 g/l (0.1%)

EC No: 247-387-9

CAS No: 23031-36-9

Annex I: 607-431-00-9

Classification according to Regulation 1272/2008/EC: Acute Tox. 4 H302, Acute Tox. 3 H331, Aquatic Acute 1 H400, Aquatic Chronic 1 H410

Other data: M=10, M(Chronic)=10

References to other sections: The full wording of the phrases is located in Section 16 of the datasheet.

SECTION 4: First aid measures

4.1. Description of first aid measures:

In case of ingestion:

Rinse mouth with water if the person is conscious. Seek immediate medical attention.

Eye contact:

Flush eyes with eye wash solution or clean water, keeping the eyelids open for at least 15 minutes. Consult a doctor.

Skin contact:

Remove all contaminated clothing. Wash the skin with plenty of water.

Inhalation exposure:

Remove the affected person from the exposure area, provide access to fresh air, and rest.

4.2. Most important acute and delayed symptoms and effects of exposure:

Inhalation exposure: coughing, runny nose, asthmatic symptoms, and other hypersensitivity reactions, shortness of breath.

Ingestion: increased salivation, nausea, vomiting, diarrhea.

Skin: irritation, redness, swelling, and allergic reactions.

4.3. Indications for any immediate medical assistance and special treatment for the victim.

Cypermethrin belongs to sodium channel toxins, lowering the threshold of sensory nerve stimulation and prolonging neuronal excitation.

Antidote - not available. Symptomatic treatment should be applied.

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Toxicology Information Centers

Warsaw 22 619 66 54 **Gdańsk** 58 682 04 04 **Kraków** 12 411 99 99

Łódź 42 631 47 25 **Poznań** 61 847 69 46

SECTION 5: Firefighting measures

General recommendations:

Remove unauthorized individuals from the affected area who are not involved in extinguishing the fire.

Remove ignition sources, no smoking. If necessary, call the Fire Department at 998.

Prevent the substance from entering sewage systems, tanks, and watercourses.

5.1. Firefighting measures:

Appropriate extinguishing agents:

Foam extinguishers, snow (CO₂), powder, or water mist.

Inappropriate extinguishing agents:

Do not use water in the form of a strong water stream.

Limit runoff water, e.g., with a temporary earth barrier.

5.2. Specific hazards associated with the substance or mixture:

Toxic gases and vapors may form during combustion: carbon monoxide (CO, CO₂), nitrogen oxides (NO_x), hydrochloric acid, hydrogen cyanide.

5.3. Information for the fire brigade:

Use protective clothing and independent breathing apparatus.

SECTION 6: Procedures for accidental release into the environment

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

Avoid direct contact with the spilled substance. Use personal protective equipment (PPE) as described in Section 8. Evacuate the area of unauthorized personnel. Ventilate the area and prevent further release of the substance into the environment.

6.2. Environmental precautions:

Prevent the spilled substance from entering sewers, waterways, or soil. Contain the spill with appropriate barriers or absorbents to minimize environmental impact.

6.3. Methods and materials for containment and cleaning up:

Absorb the spilled substance with inert materials such as sand, earth, or commercial absorbents. Transfer the absorbed material into suitable containers for disposal in accordance with local regulations. Clean contaminated surfaces thoroughly with water and detergent.

6.4. Reference to other sections:

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Refer to Sections 8 (Personal protective equipment), 13 (Disposal considerations), and 15 (Regulatory information) for additional information on handling and disposal procedures.

SECTION 7: Handling and storage of substances and mixtures

7.1. Precautions for safe handling:

Handle the substance/mixture in accordance with good industrial hygiene and safety practices.

Avoid inhalation, ingestion, and skin or eye contact.

Use suitable personal protective equipment (PPE) as described in Section 8.

Do not eat, drink, or smoke while handling the substance/mixture.

Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well-ventilated area away from sources of ignition and incompatible materials.

Keep containers tightly closed when not in use.

Store away from food, drink, and animal feed.

Follow local regulations regarding storage and handling of hazardous substances.

7.3. Specific end use(s):

Ensure that the substance/mixture is used only for its intended purpose as described in Section 1.2.

Avoid release into the environment.

7.4. Reference to other sections:

Refer to Section 8 (Exposure controls/personal protection) for information on appropriate PPE.

Refer to Section 13 (Disposal considerations) for guidance on disposal of unused products or contaminated materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters:

No specific occupational exposure limits (OELs) have been established for this substance/mixture.

Follow relevant national regulations.

8.2. Exposure controls:

Ensure adequate ventilation in areas where the substance/mixture is handled.

Wear appropriate personal protective equipment (PPE) as described below.

8.3. Individual protection measures:

Respiratory protection: Use respiratory protection equipment with suitable filtration efficiency if ventilation is inadequate and exposure cannot be controlled below applicable exposure limits.

Hand protection: Wear protective gloves resistant to chemicals and solvents.

Eye/face protection: Wear safety goggles or a face shield to prevent eye contact.

Skin protection: Wear suitable protective clothing to prevent skin contact.

Hygiene measures: Wash hands and other exposed areas thoroughly after handling. Do not eat, drink, or smoke while handling the substance/mixture.

8.4. Environmental exposure controls:

Prevent release into the environment. Ensure containment and appropriate disposal measures in case of spillage or accidental release.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

- a) Physical state: dense liquid, aqueous suspension of microcapsules
- b) Color: white
- c) Odor: characteristic, chemical, faint
- d) Melting/freezing point: approximately 0°C
- e) Boiling point or initial boiling point and boiling range: above 100°C
- f) Flammability of materials: does not contain flammable components
- g) Lower and upper flammability limits or upper/lower flammability or explosive limits: not applicable
- h) Flash point: does not ignite up to 100°C
- i) Autoignition temperature: not determined
- j) Decomposition temperature: not specified (product stable up to 100°C)
- k) pH: 5.5 – 6.5
- l) Kinematic viscosity: 50–250 cP
- m) Solubility: forms a stable suspension with water
- n) Octanol/water partition coefficient: log Pow for cypermethrin: 5.3 - 5.6 [Review report SANCO/4333/2000]; PBO: 4.8 [OECD 117]; prallethrin >2.78 [OECD 107]
- o) Vapor pressure: not applicable (microcapsule suspension in water)
- p) Density or relative density: 1.01 – 1.03 [g/cm³, at 20°C]
- q) Relative vapor density: not determined
- r) Characterization translated into English

9.2 Other information:

Evaporation rate: not determined (60% is water)

Explosive properties: none

Oxidizing properties: none

SECTION 10: Stability and reactivity

10.1. Reactivity

Under storage and handling conditions as intended - no reactivity.

10.2. Chemical stability

Under normal environmental conditions (use and storage), the mixture is stable.

10.3. Possibility of hazardous reactions

No hazardous reactions occur under normal conditions of use and storage.

10.4. Conditions to avoid: Strong sunlight.

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10.5. Incompatible materials: Strong oxidizing agents.

10.6. Hazardous decomposition products: Not known.

SECTION 11: Toxicological information

11.1. Information on Hazard Classes Defined in Regulation (EC) No 1272/2008

Acute toxicity:

Oral: LD50 (rat) > 2000 mg/kg bw [OECD No. 420 / EU Method B.1.BIS]

Category 5 / not classified according to GHS

Category U (unclassified) according to the EU transitional scheme

Dermal: LD50 (rat) > 2000 mg/kg bw [OECD No. 402 / EU Method B.3.]

No skin irritation (rabbit) [OECD No. 404 / EU Method B.4.]

Serious eye damage/eye irritation:

No eye irritation (rabbit) [OECD No. 405 / EU Method B.5.]

Respiratory or skin sensitization:

No data available for the ASCYP PBO + mixture; based on the content of ingredients, the mixture does not meet the criteria.

Carcinogenicity:

No data available for the ASCYP PBO + mixture; based on the content of ingredients, the mixture does not meet the criteria.

Mutagenicity:

No data available for the ASCYP PBO + mixture; based on the content of ingredients, the mixture does not meet the criteria.

Reproductive toxicity:

No data available for the ASCYP PBO + mixture; based on the content of ingredients, the mixture does not meet the criteria.

Specific target organ toxicity - single exposure:

No data available for the ASCYP PBO + mixture; based on the content of ingredients, the mixture does not meet the criteria.

Specific target organ toxicity - repeated exposure:

No data available for the ASCYP PBO + mixture; based on the content of ingredients, the mixture does not meet the criteria.

Aspiration hazard:

No data available for the ASCYP PBO + mixture; based on available data, classification criteria are not met.

Information on Likely Routes of Exposure

Skin contamination: May cause irritation in sensitive individuals.

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Eye contamination: May cause irritation.

Inhalation exposure: May irritate mucous membranes and upper respiratory tract in sensitive individuals.

Ingestion: May be harmful if swallowed.

Symptoms Related to Physical, Chemical, and Toxicological Properties

Inhalation exposure: Runny nose, cough, asthmatic symptoms, and other hypersensitivity symptoms, shortness of breath.

Ingestion: Increased salivation, nausea, vomiting, diarrhea.

Skin: Irritation, redness, swelling, and allergic reactions.

11.2 Information on other hazards

Does not contain substances with endocrine-disrupting properties.

Additional Data

Toxicological data for the active substance cypermethrin:

Oral: LD50 (rat) 287 mg/kg bw [Review report SANCO/4333/2000]

Dermal: LD50 (rat) > 2000 mg/kg bw [Review report SANCO/4333/2000]

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

Toxicological data for the active substance prallethrin:

Oral: LD50 (rat) ~2500 mg/kg bw

Dermal: LD50 (rat) > 2000 mg/kg bw

Inhalation: LC50/24h (rat) > 0.465 mg/L

Toxicological data for the active substance piperonyl butoxide:

Oral: LD50 (rat) 4570 mg/kg bw

Dermal: LD50 (rat) > 2000 mg/kg bw

Inhalation: LC50/24h (rat) > 5.9 mg/L

SECTION 12: Ecological Information

12.1. Toxicity:

No ecotoxicological studies available for ASCYP PBO+.

Data for the active substance cypermethrin:

Fish: 2.83 µg/L (Oncorhynchus mykiss)

Crustaceans: EC50/48h 4.71 µg/L (Daphnia magna)

Algae: EC50/72h 0.2 mg/L-1 (Selenastrum capricornutum)

Birds: LD50 (mallard ducks) > 4640 mg/kg

Soil organisms: EC50 > 100 mg/kg soil

Data for the active substance butoxy polyoxypropylene piperonyl ether:

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Fish: LC50 3.94 mg/L/96h (Cyprinodon variegatus)

Crustaceans: EC50 0.51 mg/L/48h (Daphnia magna)

Algae: EC50 3.89 mg/L/72h (Selenastrum capricornutum)

Data for the active substance prallethrin:

Fish: LC50 0.0176 mg/L/96h (Danio rerio)

Crustaceans: EC50 0.019 mg/L/48h (Daphnia magna)

Algae: EC50 4.9 mg/L/72h (Selenastrum capricornutum)

12.2. Persistence and Degradability:

No studies available for ASCYP PBO+. The included data are for active substances:

Cypermethrin:

pH 3 (water): DT50 = 1302 days (cis) and 923 days (trans)

pH 7 (water): DT50 = 221 days (cis) and 136 days (trans)

pH 8 (river water): DT50 = 21.2 days (cis) and 5.1 days (trans)

pH 11 (water): DT50 = 38 min (cis) and 23 min (trans)

Butoxy polyoxypropylene piperonyl ether:

Solubility in water at 20°C: pH 7 - 28.9 mg/L; pH 4 - 30.7 mg/L; pH 9 - 30.5 mg/L

Prallethrin:

Solubility in water at 20°C - 4.98 mg/L

12.3. Bioaccumulative Potential:

Cypermethrin: Log Pow: 5.3 - 5.6

Butoxy polyoxypropylene piperonyl ether: Log Pow: 4.8 (pH 6.5); BCF 91-260-380 (OECD 305E)

Prallethrin: Log Pow: 2.78; BCF fish 0.85

12.4. Mobility in Soil:

Cypermethrin: Non-mobile in soil.

Butoxy polyoxypropylene piperonyl ether: Mobility in soil ranges from low to moderate.

Prallethrin: Log Koc value of 3.12 indicates mobility and no absorption by organic carbon in soil.

12.5. Results of PBT and vPvB Assessment:

No data available on identified PBT or vPvB properties of mixture components.

12.6. Properties Disrupting the Functioning of the Endocrine System:

Does not contain substances with properties disrupting the functioning of the endocrine system.

12.7. Other Harmful Effects:

No data on other harmful effects available.

SECTION 13: Waste Disposal

13.1. Methods of Waste Disposal:

Disposal of Waste:

Dispose of the product and packaging as hazardous waste. Coordinate with a licensed waste disposal and treatment company.

*Waste Group: 07 04 - Waste from the production, preparation, handling, and use of organic plant protection products, wood preservatives, and other biocides.

*Waste Code: 07 04 99 - Other wastes not specified elsewhere.

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Disposal of Used Packaging:

Empty containers of the product should be returned to a collection point for hazardous waste or to an authorized waste disposal facility.

Partially emptied containers should be treated as hazardous waste.

*Waste Code: 15 01 10 - Packaging containing residues of hazardous substances or contaminated by them.

Regulations:

Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21).

Packaging and Packaging Waste Act of June 13, 2013 (Journal of Laws of 2013, item 888).

Regulation of the Minister of Climate of January 2, 2020, on the catalog of wastes (Journal of Laws of 2020, item 10).

SECTION 14: Transport Information

14.1. UN Number or ID Number: 3082 (Contains: cypermethrin, PBO, prallethrin)

14.2. Proper Shipping Name (UN): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (not otherwise specified)

14.3. Transport Hazard Class(es): 9

14.4. Packing Group: III

14.5. Environmental Hazards: Environmentally hazardous material

14.6. Special Precautions for User: Not applicable

14.7. Transport in Bulk According to IMO Instruments: Not applicable

SECTION 15: Regulatory Information

15.1. Legal regulations concerning safety, health, and environmental protection specific to the substance or mixture.

Information regarding the national legal status of the substance/product:

Authorization for the marketing of a biocidal product No. 8376/21 dated March 5, 2021.

Legal Acts: 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 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

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).

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Commission Regulation (EU) 2020/878 of 26 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Labour Code of 26 June 1974 (Journal of Laws of 2019, item 1040, 1043, 1495).

Act of 13 September 2002 on biocidal products (Journal of Laws of 2018, item 2231, of 2020, item 322).

Act of 25 February 2011 on chemical substances and their mixtures (Journal of Laws of 2019, item 1225, of 2020, item 284, 322).

Act of 14 December 2012 on waste management (Journal of Laws of 2020, item 797, 875).

Act of 13 June 2013 on the management of packaging and packaging waste (Journal of Laws of 2019, item 542, 1403, 1579, of 2020, item 284).

Regulation of the Minister of Climate of 2 January 2020 on the catalogue of waste (Journal of Laws of 2020, item 10).

Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the maximum permissible concentrations and intensities of harmful factors for health in the work environment (Journal of Laws of 2018, item 1286).

Regulation of the Minister of Development, Labour and Technology of 18 February 2021 amending the regulation on the maximum permissible concentrations and intensities of harmful factors for health in the work environment. (Journal of Laws of 2021, item 325).

Regulation of the Minister of Health of 30 December 2004 on safety and hygiene at work related to the occurrence of chemical factors in the workplace (Journal of Laws of 2005 No. 11, item 86).

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road (Journal of Laws of 2019, item 769).

15.2. Chemical Safety Assessment: The supplier has not conducted a chemical safety assessment.

SECTION 16: Other Information

Classification criteria for the product (mixture):

According to classification criteria based on the content of hazardous ingredients for physicochemical hazards, ASCYP PBO + is not classified as a hazardous product.

According to classification criteria based on studies (and the content of hazardous ingredients) for human hazards, ASCYP PBO + is not classified as a hazardous product.

Based on the translation method for environmental hazards, ASCYP PBO + is classified as a preparation posing a risk to the aquatic environment – acute hazard category. Acute toxicity category 1 – very toxic to aquatic organisms, and posing a risk to the aquatic environment – chronic hazard category. Chronic toxicity category 1 – very toxic to aquatic organisms, causing long-term effects.

Changes introduced in the update of the safety data sheet:

Update of the legal status.

Section 1.1: Added UFI code.

Completion of data in section: 3.2 (M factor for substances); 9 (new layout of physicochemical data); 11.2 (additional data for active substances); 12 (additional data for active substances).

Explanation of abbreviations and acronyms:

Terms indicating the type of hazard from section 3:

Acute Tox. 3 Acute toxicity category 3

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H331: Toxic if inhaled

Acute Tox. 4 Acute toxicity category 4

H302: Harmful if swallowed

H332: Harmful if inhaled

STOT SE 3 Specific target organ toxicity – single exposure, category 3

H335 May cause respiratory irritation

STOT RE 2 Specific target organ toxicity – repeated exposure, category 2

H373 May cause damage to organs through prolonged or repeated exposure

Aquatic Acute1 Hazardous to the aquatic environment – acute hazard category

Acute toxicity category 1

H400 Very toxic to aquatic life

Aquatic Chronic 1 Hazardous to the aquatic environment – chronic hazard category

Chronic toxicity category 1

H410 Very toxic to aquatic life with long-lasting effects

Other abbreviations:

EC - Indicates the number assigned to a chemical substance in the European Inventory of Existing Commercial Chemical Substances (EINECS) or the number assigned to a substance in the European List of Notified Chemical Substances (ELINCS).

European List of Notified Chemical Substances (ELINCS).

CAS - Chemical Abstracts Service (CAS) number: numerical designation assigned to a chemical substance by the American Chemical Abstracts Service, allowing for the identification of the substance.

NDS - No observed adverse effect level: the weighted average concentration whose impact on an employee during an 8-hour daily and average weekly working time, as defined in the Labor Code, over the period of their professional activity, should not result in negative changes in their health or the health of their future generations.

NDSch - Instantaneous maximum permissible concentration: the average concentration of a specified toxic chemical compound that should not result in negative changes in the worker's health if it occurs in the workplace for no longer than 15 minutes and not more than twice during the work shift at intervals of not less than 1 hour.

NDSP - Concentration value of a toxic chemical compound that, due to the health or life-threatening risk to the employee, cannot be exceeded in the workplace at any time.

NOEL (NOAEL) - No observable adverse effect level: the level at which no harmful effects are observed.

ADI - Acceptable daily intake: the maximum amount of a substance that, according to current knowledge, can be consumed by a human daily with food throughout life without adverse health effects.

BCF - Bioconcentration factor: a value describing the degree to which chemicals can accumulate in the tissues of organisms living in the aquatic environment.

LC50 - Median lethal dose: statistically calculated based on experimental studies, the amount of a chemical substance that causes death in 50% of the tested organisms under specified conditions.

LD50 - Lethal dose: the dose of a substance, calculated in milligrams per kilogram of body weight, needed to kill 50% of the tested population.

EC50 - Statistically calculated concentration of a chemical substance in an environmental medium that can cause specific effects in 50% of the tested organisms of a given population under specified conditions.

PBT - Persistent, Bioaccumulative, and Toxic: a criterion indicating whether a substance is persistent, bioaccumulative, and toxic.

vPvB - Very Persistent and Very Bioaccumulative: a criterion indicating whether a substance is very persistent and bioaccumulative to a very high degree.

Data sources for the preparation of the data sheet:

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Toxicological studies report for ASCYP PBO preparation. Institute of Organic Industry. Department in Pszczyna. 2010.

Review report for the active substance cypermethrin. SANCO/4333/2000 final. 15 February 2005.

The e-pesticide manual - British Crop Protection Council-cypermethrin.

Piperonyl butoxide. The e-Pesticide Manual. The British Crop Protection Council. 2001.

Piperonyl butoxide - International Programme on Chemical Safety.

Pesticides - Acute Poisoning, Institute of Occupational Medicine, 2002.

Safety data sheets from manufacturers and suppliers, as well as other company materials.

Recommendations and limitations of use:

Use according to the label - product usage instructions.

Possibility of obtaining further information:

Additional safety information available from the manufacturer.

Information on training for employees: recommended training for employees performing spraying on large areas.

The data contained in the sheet should be treated solely as assistance for safe handling in transport, distribution, use, and storage. The user is responsible for any misuse of the information contained in the Sheet or improper use of the product.