

Safety data sheet

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BASF Safety data sheet according to UN GHS 4th rev.

Date / Revised: 18.10.2021

Version: 2.0

Product: **PT Alpine Flea & Bed Bug Pressurized Insecticide**

(ID no. 30628550/SDS_CPA_00/EN)

Date of print 26.05.2024

1. Identification

Product identifier

PT Alpine Flea & Bed Bug Pressurized Insecticide

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

Relevant identified uses: crop protection product, insecticide

Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Crop Protection

Telephone: +49 621 60-27777

E-mail address: Produktinformation-Pflanzenschutz@basf.com

Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

2. Hazards Identification

Classification of the substance or mixture

According to UN GHS criteria

Skin Corr./Irrit. 3

Aquatic Acute 2

Aquatic Chronic 1

Aerosol 1

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For the classifications not written out in full in this section the full text can be found in section 16.

Label elements

Globally Harmonized System (GHS)

Pictogram:



Signal Word:

Danger

Hazard Statement:

H222	Extremely flammable aerosol.
H316	Causes mild skin irritation.
H401	Toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H229	Pressurized container: May burst if heated.

Precautionary Statement:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.

Precautionary Statements (Prevention):

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe spray.

Precautionary Statements (Response):

P391	Collect spillage.
P332 + P313	If skin irritation occurs: Get medical attention.

Precautionary Statements (Storage):

P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
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Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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According to UN GHS criteria

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Hazard determining component(s) for labelling: Petroleum gases, liquefied, sweetened, dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Other hazards

According to UN GHS criteria

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/Information on Ingredients

Substances

Not applicable

Mixtures

Chemical nature

crop protection product, insecticide

Hazardous ingredients (GHS)

According to UN GHS criteria

| dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Content (W/W): 0,26 %	Acute Tox. 4 (oral)
CAS Number: 165252-70-0	Aquatic Acute 1
	Aquatic Chronic 1
	H302, H400, H410

| Pyridine, 2-[1-methyl-2-(4-phenoxyphenoxy)ethoxy]-

Content (W/W): 0,1 %	Aquatic Acute 1
CAS Number: 95737-68-1	Aquatic Chronic 1
INDEX-Number: 613-303-00-3	H400, H410

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

Content (W/W): 0,05 %	Acute Tox. 4 (oral)
CAS Number: 23031-36-9	Acute Tox. 3 (Inhalation - mist)
EC-Number: 245-387-9	Aquatic Acute 1
INDEX-Number: 607-431-00-9	Aquatic Chronic 1
	H331, H302, H400, H410

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Petroleum gases, liquefied, sweetened

Content (W/W): < 15 %

CAS Number: 68476-86-8

EC-Number: 270-705-8

INDEX-Number: 649-203-00-1

Press. Gas Liquef. Gas

Flam. gases (incl. chem. unstable gases) 1

H280, H220

| Distillates (petroleum), hydrotreated light

Content (W/W): < 10 %

CAS Number: 64742-47-8

EC-Number: 265-149-8

INDEX-Number: 649-422-00-2

Asp. Tox. 1

H304

For the classifications not written out in full in this section the full text can be found in section 16.

4. First-Aid Measures

Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

| Wash thoroughly with soap and water

On contact with eyes:

| Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:

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water spray, carbon dioxide, foam, dry powder

Special hazards arising from the substance or mixture

Carbon monoxide, Carbon dioxide, nitrogen oxides

The substances/groups of substances mentioned can be released in case of fire. Aerosol container contains flammable gas under pressure.

Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Do not breathe vapour/spray.

Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

7. Handling and Storage

Precautions for safe handling

Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. No special measures necessary if stored and handled correctly.

Protection against fire and explosion:

Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

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Further information on storage conditions: Keep away from heat. Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.

Protect from temperatures above: 50 °C

The packed product must be protected against exceeding the indicated temperature.

Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8. Exposure Controls/Personal Protection

Control parameters

Components with occupational exposure limits

68476-86-8: Petroleum gases, liquefied, sweetened

64742-47-8: Distillates (petroleum), hydrotreated light

Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Keep away from food, drink and animal feeding stuffs. Store work clothing separately.

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9. Physical and Chemical Properties

Information on basic physical and chemical properties

Form:	liquid
Colour:	opaque
Odour:	characteristic
Odour threshold:	Not determined due to potential health hazard by inhalation.
pH value:	approx. 5,0 - 7,0 (22,9 °C)
Melting point:	The product has not been tested.
Boiling point:	The product has not been tested.
Flash point:	> -104 °C Information applies to the propellant.
Evaporation rate:	not applicable
Flammability:	Extremely flammable.
Flammability of Aerosol Products:	extremely flammable
Lower explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Ignition temperature:	Based on the water content the product does not ignite.
Vapour pressure:	approx. 4.826 hPa (21,11 °C) Information applies to the propellant.
Density:	approx. 0,97 g/cm ³ (20 °C)
Relative vapour density (air):	not applicable
Solubility in water:	soluble

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Partitioning coefficient n-octanol/water (log Kow):

The statements are based on the properties of the individual components.

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Partitioning coefficient n-octanol/water (log Kow): -0,549 (25 °C)

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Viscosity, dynamic: approx. 491 mPa.s (21,6 °C)

Explosion hazard: Based on the chemical structure there is no indication of explosive properties.

Fire promoting properties: Based on its structural properties the product is not classified as oxidizing.

Other information

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid

See SDS section 7 - Handling and storage.

Incompatible materials

Substances to avoid:

strong oxidizing agents, strong bases, strong acids

Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

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11. Toxicological Information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

LD50 rat (oral): > 5.000 mg/kg

LC50 rat (by inhalation): > 2,08 mg/l 4 h

No mortality was observed.

LD50 rat (dermal): > 5.000 mg/kg

Irritation

Assessment of irritating effects:

Skin contact causes slight irritation. Not irritating to the eyes. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

Skin corrosion/irritation rabbit: Slightly irritating.

Serious eye damage/irritation rabbit: non-irritant

Respiratory/Skin sensitization

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

modified Buehler test guinea pig: Non-sensitizing.

Germ cell mutagenicity

Assessment of mutagenicity:

Mutagenicity tests revealed no genotoxic potential. The product has not been tested. The statement has been derived from the properties of the individual components.

Carcinogenicity

Assessment of carcinogenicity:

The results of various animal studies gave no indication of a carcinogenic effect. The product has not been tested. The statement has been derived from the properties of the individual components.

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Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Developmental toxicity

Assessment of teratogenicity:

Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals. The product has not been tested. The statement has been derived from the properties of the individual components.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

No substance-specific organotoxicity was observed after repeated administration to animals. The product has not been tested. The statement has been derived from the properties of the individual components.

Aspiration hazard

The product has not been tested. The statement has been derived from the properties of the individual components.

No aspiration hazard expected.

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological Information

Toxicity

Assessment of aquatic toxicity:

Toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

The product has not been tested. The statement has been derived from the properties of the individual components.

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Information on: 2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine

Toxicity to fish:

LC50 (96 h) > 0,270 mg/l, Lepomis macrochirus

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Toxicity to fish:

LC50 (96 h) > 100 mg/l, Oncorhynchus mykiss

LC50 (96 h) > 100 mg/l, Cyprinus carpio

Information on: prallethrin; ETOC; 2-methyl-4-oxo-3-(prop-2-ynyl)cyclopent-2-en-1-yl 2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate

Toxicity to fish:

LC50 (96 h) 0,012 mg/l, Oncorhynchus mykiss

Information on: 2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine

Aquatic invertebrates:

LC50 (48 h) 0,4 mg/l, Daphnia magna (Flow through.)

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Aquatic invertebrates:

EC50 (48 h) > 1.000 mg/l, Daphnia magna

EC50 (96 h) 0,79 mg/l, Mysisidopsis bahia

Information on: prallethrin; ETOC; 2-methyl-4-oxo-3-(prop-2-ynyl)cyclopent-2-en-1-yl 2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate

Aquatic invertebrates:

EC50 (48 h) 0,0062 mg/l, daphnia

Information on: 2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine

Aquatic plants:

EC50 (72 h) 0,15 mg/l, Pseudokirchneriella subcapitata

No observed effect concentration (7 d) 0,05 mg/l, Pseudokirchneriella subcapitata

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Aquatic plants:

EC50 (72 h) 97,6 mg/l (biomass), Pseudokirchneriella subcapitata

Information on: prallethrin; ETOC; 2-methyl-4-oxo-3-(prop-2-ynyl)cyclopent-2-en-1-yl 2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate

Aquatic plants:

EC50 (72 h) 2,0 mg/l, algae

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

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The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine

Assessment biodegradation and elimination (H₂O):

| *Not readily biodegradable (by OECD criteria).*

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable (by OECD criteria).

Information on: prallethrin; ETOC; 2-methyl-4-oxo-3-(prop-2-ynyl)cyclopent-2-en-1-yl 2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable (by OECD criteria).

Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Assessment bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Information on: 2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine

Bioaccumulation potential:

*Bioconcentration factor: 1.379 - 1.495 (28 d), *Lepomis macrochirus**

Significant accumulation in organisms is not to be expected.

Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine

Assessment transport between environmental compartments:

Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Information on: dinotefuran (ISO); (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

Assessment transport between environmental compartments:

Adsorption in soil: Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

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Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

Other adverse effects

The product does not contain substances that are listed in the Montreal Protocol on substances that deplete the ozone layer.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. Disposal Considerations

Waste treatment methods

Must be sent to a suitable incineration plant, observing local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

Emptied gas pressure vessels must not be opened.

14. Transport Information

Land transport

ADR

UN number	UN1950
UN proper shipping name:	AEROSOLS (contains PETROLEUM GASES, LIQUEFIED, SWEETENED, DINOTEFURAN)
Transport hazard class(es):	2.1, EHSM
Packing group:	Not applicable
Environmental hazards:	yes
Special precautions for user:	Tunnel code: D

RID

UN number	UN1950
UN proper shipping name:	AEROSOLS (contains PETROLEUM GASES, LIQUEFIED, SWEETENED, DINOTEFURAN)

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Transport hazard class(es): 2.1, EHSM
Packing group: Not applicable
Environmental hazards: yes
Special precautions for user: None known

Inland waterway transport

ADN

UN number: UN1950
UN proper shipping name: AEROSOLS (contains PETROLEUM GASES, LIQUEFIED, SWEETENED, DINOTEFURAN)
Transport hazard class(es): 2.1, EHSM
Packing group: Not applicable
Environmental hazards: yes
Special precautions for user: None known

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number: UN 1950
UN proper shipping name: AEROSOLS (contains PETROLEUM GASES, LIQUEFIED, SWEETENED, DINOTEFURAN)
Transport hazard class(es): 2.1, EHSM
Packing group: Not applicable
Environmental hazards: yes
Marine pollutant: YES
Special precautions for user: None known

Air transport

IATA/ICAO

UN number: UN 1950
UN proper shipping name: AEROSOLS, FLAMMABLE
Transport hazard class(es): 2.1
Packing group: Not applicable
Environmental hazards: No Mark as dangerous for the environment is needed
Special precautions for user: None known

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Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

15. Regulatory Information**Safety, health and environmental regulations/legislation specific for the substance or mixture**

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

16. Other Information

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Skin Corr./Irrit.	Skin corrosion/irritation
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Aerosol	Aerosols
Acute Tox.	Acute toxicity
Press. Gas	Gases under pressure
Flam. gases (incl. chem. unstable gases)	Flammable gases (including chemically unstable gases)
Asp. Tox.	Aspiration hazard
H302	Harmful if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H331	Toxic if inhaled.
H280	Contains gas under pressure; may explode if heated.
H220	Extremely flammable gas.
H304	May be fatal if swallowed and enters airways.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.