

SAFETY DATA SHEET



PERMECTRIN™ FLY & LOUSE DUST

Version 1.1 Revision Date: 10/08/2020 SDS Number: 122000008511 Date of last issue: 06/23/2020
Date of first issue: 06/23/2020

SECTION 1. IDENTIFICATION

Product information

Product Name : PERMECTRIN™ FLY & LOUSE DUST
SDS Number : 122000008511

Use : Pesticide

Company

Elanco US Inc.
2500 Innovation Way
Greenfield, IN 46140
USA
+1-877-Elanco1(+1-877-3526261)
elanco_sds@elanco.com

In case of emergency: CHEMTREC International: +1 703-527-3887 (24 hours)

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Not a dangerous substance / mixture according to GHS.

GHS label elements

Not a dangerous substance / mixture according to GHS.

Other hazards

May form explosive dust-air mixture during processing, handling or other means.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Amorphous Alumina Silicate	93763-70-3	3
Permethrin	52645-53-1	0.266

SECTION 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.

If inhaled : Not an expected entry route.

In case of skin contact : No hazards which require special first aid measures.

In case of eye contact : Flush eyes with water as a precaution.

If swallowed : In case of accidental ingestion, contact your regional poison center or physician immediately.

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Most important symptoms and effects, both acute and delayed : No information available.

Notes to physician : No information available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : None known.

Specific hazards during fire-fighting : Fire may cause evolution of:
Carbon monoxide (CO)
Carbon dioxide (CO₂)

Dust can form an explosive mixture in air.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Avoid breathing dust.
Avoid dust formation.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Take measures to prevent the build up of electrostatic charge. Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Avoid dust formation.
Use with local exhaust ventilation.
Avoid contact with skin, eyes and clothing.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
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		(Form of exposure)	ters / Permissible concentration	
Calcium carbonate	471-34-1	TWA (Respirable)	5 mg/m ³ (Calcium carbonate)	NIOSH REL
		TWA (Respirable)	5 mg/m ³ (Calcium carbonate)	NIOSH REL
		TWA (total)	10 mg/m ³ (Calcium carbonate)	NIOSH REL
		TWA (total)	10 mg/m ³ (Calcium carbonate)	NIOSH REL
		TWA (Respirable)	5 mg/m ³ (Calcium carbonate)	NIOSH REL
		TWA (Respirable)	5 mg/m ³ (Calcium carbonate)	NIOSH REL
		TWA (total)	10 mg/m ³ (Calcium carbonate)	NIOSH REL
		TWA (total)	10 mg/m ³ (Calcium carbonate)	NIOSH REL
Amorphous Alumina Silicate	93763-70-3	TWA (Respirable)	5 mg/m ³	NIOSH REL
		TWA (Respirable)	5 mg/m ³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (Total dust)	15 mg/m ³	OSHA P0
		TWA (Total dust)	15 mg/m ³	OSHA P0
		TWA (respirable dust fraction)	5 mg/m ³	OSHA P0
		TWA (respirable dust fraction)	5 mg/m ³	OSHA P0
Permethrin	52645-53-1	SUP	10 mg/m ³	

Personal protective equipment

Respiratory protection : Recommended Filter type: HEPA

Hand protection

Material : Hand protection: protective gloves for chemicals made of Baypren, nitrile rubber or PVC

Remarks : Breakthrough time not tested; dispose of immediately after

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contamination. Advice: The gloves should not be reused.

Eye protection : Safety glasses

Protective measures : Wear suitable protective equipment.

Hygiene measures : Wash hands and face before breaks and immediately after handling the product.
Use protective skin cream before handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid

Colour : off-white, to, grey

Odour : odourless

pH : No data available

Melting point / range : No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Density : 0.898 g/cm³ (68 °F / 20 °C)

Solubility(ies)

 Water solubility : slightly soluble

 Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

 Viscosity, dynamic : Not applicable

 Viscosity, kinematic : Not applicable

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Explosive properties : No statements available.
Oxidizing properties : No data available
Minimum ignition energy : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No data available
Chemical stability : No data available
Possibility of hazardous reactions : No data available
Conditions to avoid : No data available
Incompatible materials : Strong acids
Strong bases
Strong oxidizing agents
Hazardous decomposition products : Carbon monoxide (CO)
Carbon dioxide (CO₂)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): 3,800 mg/kg
Remarks: Data on active ingredient
Acute inhalation toxicity : LC50 (Rat): Exposure time: 4 h
Remarks: No information available.
Acute dermal toxicity : LD50 (Rat): Remarks: No information available.

Components:

Permethrin:

Acute oral toxicity : LD50 (Rat): 430 mg/kg
Acute inhalation toxicity : LC50 (Rat): 2.3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist/aerosol
Acute dermal toxicity : LD50 (Rat): > 2,500 mg/kg

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Skin corrosion/irritation

Product:

Species : Rabbit
Remarks : No data available

Components:

Amorphous Alumina Silicate:

Remarks : Prolonged skin contact may cause skin irritation and/or dermatitis.

Permethrin:

Species : Rabbit
Result : No skin irritation

Serious eye damage/eye irritation

Product:

Species : Rabbit
Result : Mild eye irritation

Components:

Amorphous Alumina Silicate:

Remarks : Mechanical irritation of the eyes is possible.

Respiratory or skin sensitisation

Product:

Remarks : Non-sensitizer

Components:

Amorphous Alumina Silicate:

Assessment : An acute toxic effect is not expected.

Permethrin:

Result : May cause sensitisation by skin contact.

Components:

Amorphous Alumina Silicate:

Repeated dose toxicity - Assessment : An acute toxic effect is not expected.

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Further information**Components:****Amorphous Alumina Silicate:**

Remarks : Inhalation of aerosols may cause irritation to mucous membranes.

Permethrin:

Pharmaceutical effects

Remarks : Insecticide

Remarks : Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Amorphous Alumina Silicate:****Ecotoxicology Assessment**

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Permethrin:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.00017 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50: 0.5 mg/l
Exposure time: 72 h

Persistence and degradability**Components:****Amorphous Alumina Silicate:**

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

Stability in water : Remarks: The product is insoluble and floats on water.

Permethrin:

Biodegradability : Result: Not rapidly biodegradable
Biodegradation: 0 %
Testing period: 7 d
Exposure time: 28 d
Kinetic:
7 d: 0 %
14 d: 0 %

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21 d: 0 %

28 d: 0 %

Bioaccumulative potential

Components:

Permethrin:

Partition coefficient: n-octanol/water : log Pow: 5.95

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : No information on ecology is available.

Do not allow to enter surface waters or groundwater. This product is toxic to fish and aquatic organisms. Do not apply directly to water, or surface/ground water exchange or intertidal areas below the mean high water mark. Apply this product only as specified on the label. Do not contaminate surface or ground water by cleaning equipment or disposing of wash water.

Components:

Amorphous Alumina Silicate:

Results of PBT and vPvB assessment : This substance is not considered to be very persistent and very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic.

However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 3077

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Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PERMETHRIN)
Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

IMDG-Code

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PERMETHRIN)
Class : 9
Packing group : III
Labels : 9
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

49 CFR

Not regulated as a dangerous good

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

International Regulations

Montreal Protocol (Ozone Depleting Substances) : Not applicable
Rotterdam Convention (Prior Informed Consent) : Not applicable
Stockholm Convention (Persistent Organic Pollutants) : Not applicable

The components of this product are reported in the following inventories:

TSCA : Not On TSCA Inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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SECTION 16. OTHER INFORMATION

Further information

Full text of other abbreviations

NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	:	8-hour time weighted average

Revision Date : 10/08/2020

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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