

**Safety Data Sheet**  
acc. to OSHA HCS 2012

Date of issue: 07/01/2025

Version 1.0

Revision date: 07/01/2025

## 1 Identification

- **GHS Product Identifier: PetArmor Extend Flea & Tick Collar for Dogs**
- **Other means of identification**
  - **Product Code(s):** JB1
  - **EPA Number:** 2517-181
- **Relevant identified uses:** Pest control treatment for pets
  - **Manufacturer/Supplier:**  
Sergeant's Pet Care Products, LLC  
10077 S. 134th Street  
Omaha, NE 68138 US  
1-800-224-7387
- **Emergency telephone number:**  
Medical Emergency: 1-800-781-4738  
CHEMTREC, U.S.: 1-800-424-9300    International: 703-741-5970  
(24/7)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Acute toxicity - oral 4    H302 Harmful if swallowed.  
Sensitization - skin 1    H317 May cause an allergic skin reaction.  
Aquatic Acute 1    H400 Very toxic to aquatic life.  
Aquatic Chronic 1    H410 Very toxic to aquatic life with long lasting effects.
- **Label elements**
  - **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
    - **Hazard pictograms**  
   
GHS07    GHS09
    - **Signal word** Warning
    - **Hazard statements**  
Harmful if swallowed.  
May cause an allergic skin reaction.  
Very toxic to aquatic life with long lasting effects.
    - **Precautionary statements**  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing must not be allowed out of the workplace.  
Avoid release to the environment.  
Wear protective gloves.

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If swallowed: Call a poison center/doctor if you feel unwell.  
Rinse mouth.  
If on skin: Wash with plenty of water.  
Take off contaminated clothing and wash it before reuse.  
If skin irritation or rash occurs: Get medical advice/attention.  
Specific treatment (see on this label).  
Collect spillage.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

**Information pertaining to particular dangers for man and environment:**

**Classification system:**

**NFPA ratings (scale 0 - 4)**



Health = 1  
Fire = 0  
Reactivity = 0

**HMS-ratings (scale 0 - 4)**



Health = 1  
Fire = 0  
Reactivity = 0

**Classification according to (d)(1)(ii) of § 1910.1200**

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

**Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

**3 Composition/information on ingredients**

**Chemical characterization: Mixtures**

**Dangerous components:**

105-99-7	Dibutyl adipate	≥10–≤30%
138261-41-3	imidacloprid (ISO)	≥5–≤10%
69770-45-2	Flumethrin	≥1–≤5%
8013-07-8	Soybean oil, epoxidized	≥1–≤5%
57-11-4	stearic acid, pure	≥0.1–≤1%
13463-67-7	Titanium Dioxide	≥0.5–≤1%

**Additional information:**

The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this

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section.

#### 4 First-aid measures

· **Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** Immediately call a doctor.

· **Information for doctor:**

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

#### 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

· **Special hazards arising from the substance or mixture** No further relevant information available.

· **Advice for firefighters**

· **Protective equipment:** No special measures required.

#### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.

· **Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.

· **Reference to other sections**

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**7 Handling and storage**

· **Protective Measures**

Ensure good ventilation/exhaustion at the workplace.

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

· **Information about protection against explosions and fires:** No special measures required.

· **Advice on General Occupational Hygiene:**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.

· **Conditions for safe storage, including any incompatibilities**

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

**8 Exposure controls/personal protection**

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

**138261-41-3 imidacloprid (ISO)**

TLV	Long-term value: 0.005* mg/m <sup>3</sup> *inh. particulate matter, A4
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<b>57-11-4 stearic acid, pure</b>	
TLV	Long-term value: 10* 3** mg/m <sup>3</sup> *inhalable, **respirable particulate matter, *A4
<b>13463-67-7 Titanium Dioxide</b>	
PEL	Long-term value: 15* mg/m <sup>3</sup> *total dust
REL	See Pocket Guide App. A
TLV	Long-term value: 0.2* 2.5** mg/m <sup>3</sup> resp. fraction, *nanoscale, **finescale, A3

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Not required.

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**9 Physical and chemical properties**

· **Information on basic physical and chemical properties**

· **General Information**

· <b>Physical state</b>	Solid
· <b>Color:</b>	Grey
· <b>Odor:</b>	Characteristic
· <b>Melting point/Melting range:</b>	140 °C (284 °F)
· <b>Boiling point/Boiling range:</b>	Undetermined.
· <b>Flammability:</b>	Not determined.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Flash point:</b>	Not applicable.
· <b>Auto igniting:</b>	507.2 °C (945 °F)
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH-value:</b>	Not applicable.
· <b>Viscosity:</b>	
· <b>Kinematic:</b>	Not applicable.
· <b>Dynamic:</b>	Not applicable.
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Insoluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Vapor pressure:</b>	Not applicable.
· <b>Vapor pressure:</b>	
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Bulk density:</b>	550 kg/m <sup>3</sup>
· <b>Vapor density</b>	Not applicable.
· <b>Particle characteristics</b>	Not determined.

· **Other information**

· <b>Appearance:</b>	
· <b>Form:</b>	Solid material
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Solvent content:</b>	
· <b>VOC content:</b>	0.00 %
· <b>Solids content:</b>	100.0 %
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not applicable.

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**10 Stability and reactivity**

- **Reactivity** No further relevant information available.
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

**ATE (Acute Toxicity Estimate)**

Oral	LD50	824 mg/kg
Dermal	LD50	6,663 mg/kg
Inhalative	LC50/4 h	66.6 mg/l

**105-99-7 Dibutyl adipate**

Oral	LD50	12,900 mg/kg (rat)
Dermal	LD50	19,240 mg/kg (rabbit)

**138261-41-3 imidacloprid (ISO)**

Oral	LD50	131 mg/kg (ATE)
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**69770-45-2 Flumethrin**

Oral	LD50	100 mg/kg (ATE)
Dermal	LD50	300 mg/kg (ATE)
Inhalative	LC50/4 h	3 mg/l (ATE)

**8013-07-8 Soybean oil, epoxidized**

Oral	LD50	21,000 mg/kg (rat)
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**57-11-4 stearic acid, pure**

Dermal	LD50	>5,000 mg/kg (rabbit)
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**13463-67-7 Titanium Dioxide**

Oral	LD50	>10,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)

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Inhalative	LC50/4 h	>6.82 mg/l (rat)
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- **Primary irritant effect:**
  - **on the skin:** No irritant effect.
  - **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:  
Harmful  
Irritant

- **Interactive effects** No interactive effects between components are known.
- **Carcinogenic categories**

· <b>IARC (International Agency for Research on Cancer)</b>		
13463-67-7	Titanium Dioxide	2B

· <b>NTP (National Toxicology Program)</b>		
None of the Ingredients are listed.		

· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>		
None of the Ingredients are listed.		

- **Alternative sources for toxicological information**  
No non-standard sources for toxicological information where used.

**12 Ecological information**

· **Toxicity**

· <b>Aquatic toxicity:</b>		
<b>8013-07-8 Soybean oil, epoxidized</b>		
EC50/48 hr	8 mg/l (aquatic algae and cyanobacteria)	
	8 mg/l (algae)	
	100 mg/l (daphnia)	

- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Other adverse effects**
  - **Remark:** Very toxic for fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 3 (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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Danger to drinking water if even extremely small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Very toxic for aquatic organisms

**13 Disposal considerations**

· **Waste treatment methods**

· **Recommendation:**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

· **Uncleaned packagings:**

· **Recommendation:**

Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**14 Transport information**

· <b>UN-Number</b> · <b>DOT, IMDG, IATA</b>	UN3077
· <b>UN proper shipping name</b> · <b>DOT</b> · <b>IMDG</b> · <b>IATA</b>	Environmentally hazardous substance, solid, n.o.s. (imidacloprid (ISO)) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (imidacloprid (ISO)), MARINE POLLUTANT Environmentally hazardous substance, solid, n.o.s. (containing imidacloprid (ISO))
· <b>Transport hazard class(es)</b> · <b>DOT, IMDG, IATA</b>	
	
· <b>Class</b> · <b>Label</b>	9 Miscellaneous dangerous substances and articles 9

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· <b>Packing group</b> · DOT, IMDG, IATA	III
· <b>Environmental hazards:</b> · <b>Marine pollutant:</b> · <b>Special marking (IATA):</b>	Product contains environmentally hazardous substances: imidacloprid (ISO) Yes (DOT) Symbol (fish and tree) Symbol (fish and tree)
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b> · <b>DOT</b> · <b>Quantity limitations</b> · <b>Remarks:</b>	On passenger aircraft/rail: No limit On cargo aircraft only: No limit Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. This product is not regulated as a hazardous material when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of §§ 173.24 and 173.24a. Special marking with the symbol (fish and tree).
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b> · <b>Remarks:</b>	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
· <b>IATA</b> · <b>Remarks:</b>	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
· <b>Special precautions for user</b> · <b>Hazard identification number (Kemler code):</b> · <b>EMS Number:</b> · <b>Stowage Category</b> · <b>Stowage Code</b>	Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F A SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.

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· **UN "Model Regulation":** UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IMIDACLOPRID (ISO)), 9, III

**15 Regulatory information**

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the Ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

73398-61-5	Glycerides, mixed decanoyl and octanoyl	ACTIVE
8013-07-8	Soybean oil, epoxidized	ACTIVE
57-11-4	stearic acid, pure	ACTIVE
13463-67-7	Titanium Dioxide	ACTIVE
14808-60-7	Quartz (SiO <sub>2</sub> )	ACTIVE

· **Proposition 65**

· **Chemicals known to cause cancer:**

This product does not contain any chemicals listed under Proposition 65, or are below the Safe Harbor thresholds and do not require any safe harbor warnings.

· **Chemicals known to cause reproductive toxicity for females:**

This product doesn't contain any chemicals listed under Proposition 65, or are below the Safe Harbor thresholds and doesn't require warnings

· **Chemicals known to cause reproductive toxicity for males:**

This product doesn't contain any chemicals listed under Proposition 65, or are below the Safe Harbor thresholds and doesn't require warnings

· **Chemicals known to cause developmental toxicity:**

This product doesn't contain any chemicals listed under Proposition 65, or are below the Safe Harbor thresholds and doesn't require warnings

· **State Regulations**

· **New Jersey Right-to-Know List:**

13463-67-7	Titanium Dioxide
14808-60-7	Quartz (SiO <sub>2</sub> )

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· **New Jersey Special Hazardous Substance List:**

14808-60-7	Quartz (SiO <sub>2</sub> )	CA
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· **Pennsylvania Right-to-Know List:**

13463-67-7	Titanium Dioxide
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14808-60-7	Quartz (SiO <sub>2</sub> )
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· **Pennsylvania Special Hazardous Substance List:**

None of the Ingredients are listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the Ingredients are listed.

· **TLV (Threshold Limit Value)**

13463-67-7	Titanium Dioxide	A4
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14808-60-7	Quartz (SiO <sub>2</sub> )	A2
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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

13463-67-7	Titanium Dioxide
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· **PFAS**

None of the Ingredients are listed.

**16 Other information**

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

· **Department issuing SDS:** PetIQ Regulatory Affairs

· **Contact:** OM.SDS@petiq.com

· **Date of preparation** 07/01/2025

· **Abbreviations and acronyms:**

- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent

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NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute toxicity - oral 4: Acute toxicity – Category 4

Sensitization - skin 1: Skin sensitisation – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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