

SAFETY DATA SHEET



K9 Advantix® II

Version 1.0 Revision Date: 06/24/2020 SDS Number: 122000003695 Date of last issue: -
Date of first issue: 24.06.2020

SECTION 1. IDENTIFICATION

Product information

Product Name : K9 Advantix® II
SDS Number : 122000003695

Use : Biocidal product

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

Acute toxicity (Inhalation) : Category 4
Skin irritation : Category 2
Eye irritation : Category 2A
Reproductive toxicity : Category 1B
Specific target organ toxicity : Category 3 (Respiratory system)
- single exposure

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H360D May damage the unborn child.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.

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P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/
face protection.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Permethrin	52645-53-1	44,0149
1-Methyl-2-pyrrolidone	872-50-4	42,207
Imidacloprid	138261-41-3	8,803
pyriproxyfen	95737-68-1	0,44

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 : After contact with skin, wash immediately with plenty of soap and water.
If skin reactions occur, contact a physician.

In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

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

Protection of first-aiders : No special precautions are necessary for first aid responders.

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 : High volume water jet

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- Specific hazards during fire-fighting : Fire may cause evolution of:
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
Hydrogen cyanide (hydrocyanic acid)
Hydrogen chloride gas
- 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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Avoid formation of aerosol.
- Methods and materials for containment and cleaning up : Cover spilled product with liquid-binding material (sand, silica gel, acid binder, universal binder, hybilat). Take up mechanically and fill into labeled, closable containers.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : No special protective measures against fire required.
- Advice on safe handling : Avoid formation of aerosol.
- Conditions for safe storage : Store at temperatures and conditions as indicated on the product label.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Permethrin	52645-53-1	SUP	10 mg/m ³	
1-Methyl-2-pyrrolidone	872-50-4	TWA	10 ppm	US WEEL
		TWA	10 ppm	US WEEL
Imidacloprid	138261-41-3	Bayer OES	0,7 mg/m ³	TRGS901

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
1-Methyl-2-pyrrolidone	872-50-4	5-Hydroxy-N-methyl-2-	Urine	End of shift (As)	100 mg/l	ACGIH BEI

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		pyrrolidone		soon as possible after exposure ceases)		
		5-Hydroxy-N-methyl-2-pyrrolidone	Urine	End of shift (As soon as possible after exposure ceases)	100 mg/l	ACGIH BEI

Personal protective equipment

- Respiratory protection : Recommended Filter type:
Organic vapor with prefilter

None required for consumer use of this product.
- Hand protection
Material : Chemically resistant gloves.
- Remarks : None required for consumer use of this product.
- Eye protection : Safety glasses
None required for consumer use of this product.
- Protective measures : No special safety precautions are required during handling of pharmaceuticals in their intended finished form (tablets or liquid formulations) by chemists, the hospital's medical staff or patients.
Please consult label for end-user requirements.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : tan
- Odour : very faint
- Odour Threshold : No data available
- pH : 3,0 - 5,5
Concentration: 100 g/l
- Melting point / range : No data available
- Boiling point/boiling range : 383 °F / 195 °C
Method: DIN 53171
- Flash point : > 199,9 °F / > 93,3 °C

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Evaporation rate : No data available

Burning rate : No data available

Self-ignition : No data available

Burning number : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 1,1360 g/cm³ (68 °F / 20 °C)
Method: DIN 51757

Bulk density : No data available

Solubility(ies)

 Water solubility : No data available

 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 : No data available

 Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Impact sensitivity : No data available

Minimum ignition energy : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No data available

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Chemical stability : No data available

Possibility of hazardous reactions : No data available

Conditions to avoid : No data available

Incompatible materials : Peroxides
Bases
Strong acids

Hazardous decomposition products : Carbon monoxide (CO)
Carbon dioxide (CO₂)

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity****Product:**

Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg
Method: OECD 425

Acute inhalation toxicity : LC50 (Rat): > 2,86 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist/aerosol
Method: OECD 403

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD 402
Assessment: No adverse effect has been observed in acute toxicity tests.

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

1-Methyl-2-pyrrolidone:

Acute oral toxicity : LD50 (Rat): 4.150 mg/kg
Method: OECD 401

Acute inhalation toxicity : LC50 (Rat): > 5,1 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist/aerosol
Method: OECD 403

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Assessment: No adverse effect has been observed in acute toxicity tests.

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD 402
Assessment: No adverse effect has been observed in acute toxicity tests.

Imidacloprid:

Acute oral toxicity : LD50 (Rat): 424 mg/kg
Method: OECD 401

Acute inhalation toxicity : LC50 (Rat): > 5,323 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist/aerosol
Method: OECD 403

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg

pyriproxyfen:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Assessment: No adverse effect has been observed in acute toxicity tests.

Skin corrosion/irritation

Product:

Species : Rabbit
Method : OECD 404
Result : Moderate skin irritation

Components:

Permethrin:

Species : Rabbit
Result : No skin irritation

1-Methyl-2-pyrrolidone:

Species : Rabbit
Result : Skin irritation

Imidacloprid:

Species : Rabbit
Result : No skin irritation

pyriproxyfen:

Species : Rabbit
Result : No skin irritation

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Serious eye damage/eye irritation**Product:**

Species : Rabbit
Result : Moderate eye irritation
Method : OECD 405

Components:**1-Methyl-2-pyrrolidone:**

Species : Rabbit
Result : Irritating to eyes.

Imidacloprid:

Species : Rabbit
Result : No eye irritation

Respiratory or skin sensitisation**Product:**

Test Type : Skin sensitisation
Species : Guinea pig
Method : Buehler Test
Result : Does not cause skin sensitisation.

Components:**Permethrin:**

Result : May cause sensitisation by skin contact.

1-Methyl-2-pyrrolidone:

Test Type : Skin sensitisation
Species : Mouse
Method : OECD 429
Result : Does not cause skin sensitisation.
Test substance : Data on a comparable substance

Test Type : Skin sensitisation
Species : Human experience
Method : Patch Test
Result : Does not cause skin sensitisation.

Imidacloprid:

Test Type : Skin sensitisation
Species : Guinea pig
Method : Magnusson and Kligmann maximization test
Result : Did not cause sensitisation on laboratory animals.

pyriproxyfen:

Method : Magnusson and Kligmann maximization test

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Result : Does not cause skin sensitisation.

Germ cell mutagenicity**Components:****1-Methyl-2-pyrrolidone:**

Genotoxicity in vitro : Test Type: Bacterial mutagenicity
Result: No indication of mutagenic effects.

Genotoxicity in vivo : Remarks: In vivo tests did not show mutagenic effects

Imidacloprid:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Result: No indication of mutagenic effects., No evidence of a genotoxic effect.

pyriproxyfen:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Test Type: V79-HPRT Forward Mutation Assay
Result: negative

Test Type: In vitro Cytogenetic Test
Result: negative

Test Type: DNA damage and/or repair
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse
Result: No evidence of a genotoxic effect.

Carcinogenicity**Components:****1-Methyl-2-pyrrolidone:**

Result : Animal testing did not show any carcinogenic effects.

Imidacloprid:

Result : Animal testing did not show any carcinogenic effects.

pyriproxyfen:

Species : Rat
Result : negative

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- IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity**Components:****1-Methyl-2-pyrrolidone:**

Effects on fertility : Species: Rat
 Application Route: Oral
 General Toxicity - Parent: LOAEL: 500 mg/kg body weight
 Fertility: NOAEL: 350 mg/kg body weight
 Method: OECD 416
 Result: Animal studies have produced evidence a fertility-reducing effect.

Effects on foetal development : Species: Rat
 Application Route: Oral
 Frequency of Treatment: 1 daily
 Developmental Toxicity: NOAEL: 160 mg/kg body weight
 Method: OECD 416
 Result: May damage the unborn child.

Imidacloprid:**STOT - single exposure****Components:****1-Methyl-2-pyrrolidone:**

Assessment : May cause respiratory irritation.

STOT - repeated exposure**Components:****Imidacloprid:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Further information**Components:****Permethrin:**

Pharmaceutic effects
 Remarks : Insecticide

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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).

1-Methyl-2-pyrrolidone:

Remarks : Dermal absorption possible

Imidacloprid:

Pharmaceutic effects
Remarks : Insecticide

pyriproxyfen:

Pharmaceutic effects
Remarks : Insecticide

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

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

1-Methyl-2-pyrrolidone:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 500 mg/l
Exposure time: 96 h
Test Type: Acute Fish toxicity

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 1.000 mg/l
Exposure time: 24 h
Method: DIN 38412

NOEC (Daphnia magna (Water flea)): 1.000 mg/l
Exposure time: 24 h
Method: DIN 38412

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l
Exposure time: 72 h

Toxicity to microorganisms : EC20: > 600 mg/l
Exposure time: 0,5 h
Method: OECD 209

Imidacloprid:

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- Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 237 mg/l
Exposure time: 96 h
Test Type: Acute Fish toxicity
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 85 mg/l
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time: 72 h
- EC50 (Desmodesmus subspicatus (green algae)): > 10 mg/l
Exposure time: 72 h
- Toxicity to microorganisms : EC50 (Activated sludge micro-organism): > 10.000 mg/l
Method: OECD 209

pyriproxyfen:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,33 - 0,37 mg/l
Exposure time: 96 h
Test Type: Acute Fish toxicity
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,4 mg/l
Exposure time: 48 h
- Toxicity to algae/aquatic plants : IC50 (Pseudokirchneriella subcapitata (green algae)): 0,064 mg/l
Exposure time: 72 h

Persistence and degradability

Components:

Permethrin:

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

1-Methyl-2-pyrrolidone:

- Biodegradability : Result: Readily biodegradable.
Biodegradation: > 90 %
Method: OECD 301E
- Biochemical Oxygen Demand (BOD) : 2 mg/g
Incubation time: 5 d
- Chemical Oxygen Demand : 1.600 mg/l

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(COD)

ThOD : 1.939 mg/g

Imidacloprid:

Stability in water : Degradation half life: > 1 a (25 °C) pH: 4
Hydrolysis: at 25 °C

Degradation half life: > 1 a (25 °C) pH: 7
Hydrolysis: at 25 °C

Degradation half life: ca. 1 h (25 °C) pH: 9
Hydrolysis: at 25 °C

pyriproxyfen:

Biodegradability : Result: Not rapidly biodegradable
Method: OECD 301 D

Bioaccumulative potential

Components:

Permethrin:

Partition coefficient: n-octanol/water : log Pow: 5,95

1-Methyl-2-pyrrolidone:

Partition coefficient: n-octanol/water : log Pow: -0,46

Imidacloprid:

Bioaccumulation : Remarks: Low potential for bioaccumulation

Partition coefficient: n-octanol/water : log Pow: 0,57 (70 °F / 21 °C)
Method: OECD 107

pyriproxyfen:

Bioaccumulation : Bioconcentration factor (BCF): 1.500

Partition coefficient: n-octanol/water : log Pow: 5,37 (77 °F / 25 °C)

Mobility in soil

No data available

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Other adverse effects

Product:

Components:

Imidacloprid:

Adsorbed organic bound halogens (AOX) : Remarks: The product contains organic halogens.

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 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN, IMIDACLOPRID, N-METHYLPYRROLIDONE)
Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

IMDG-Code

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN, IMIDACLOPRID, N-METHYLPYRROLIDONE)
Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
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

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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

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation
Reproductive toxicity
Specific target organ toxicity (single or repeated exposure)

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Permethrin	52645-53-1	44,0149 %
1-Methyl-2-pyrrolidone	872-50-4	42,207 %

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

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US State Regulations

Massachusetts Right To Know

Permethrin 52645-53-1
1-Methyl-2-pyrrolidone 872-50-4

Pennsylvania Right To Know

1-Methyl-2-pyrrolidone 872-50-4

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

1-Methyl-2-pyrrolidone 872-50-4

Washington Chemicals of High Concern

1-Methyl-2-pyrrolidone 872-50-4

New York City Hazardous Substances

2,6-Di-tert-butyl-p-cresol 128-37-0

California Permissible Exposure Limits for Chemical Contaminants

1-Methyl-2-pyrrolidone 872-50-4

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 : Substance(s) not listed on TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:

1-Methyl-2-pyrrolidone 872-50-4

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:

Health - 2 Flammability - 1 Instability - 0 Others -

HMIS® IV:

Health - 2 Flammability - 1 Instability - 0 Others -

Full text of other abbreviations

ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

TRGS901 : TRGS 901, Explanations and Basis for Exposure Limits in the

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	Workplace Air
US WEEL	: USA. Workplace Environmental Exposure Levels (WEEL)
TRGS901 / Bayer OES	: BOES = Bayer Occupational Exposure Standard
US WEEL / TWA	: 8-hr TWA

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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.

US / EN