

SAFETY DATA SHEET
K9 Advantix II

122000003695

Version 2.0

Revision Date 05/26/2015

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information****Product Name:** K9 Advantix II

SDS Number: 122000003695

Use : Biocidal product**Company**

BAYER HEALTHCARE LLC
 Animal Health Division
 12707 Shawnee Mission Parkway
 (West 63rd)
 Shawnee, KS 66216-1846
 USA
 (800) 633-3796

In case of emergency: (800) 422-9874

Chemtrec: (800) 424-9300

BAYER INFORMATION PHONE:(800) 633-3796

INTERNATIONAL:(703) 527-3887

2. HAZARDS IDENTIFICATION**Emergency Overview****WARNING! Colour:** tan **Form:** liquid **Odour:** very faint.

May cause eye, skin, and respiratory tract irritation. Inhalation may cause nausea or dizziness. May be harmful if swallowed.

GHS Classification:

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

GHS Label element:**Hazard pictograms** :

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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. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P273 Avoid release to the environment. P280 Wear protective gloves/ eye protection/ face protection. P281 Use personal protective equipment as required. Response: P308 + P313 IF exposed or concerned: Get medical advice/ attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Weight percent	Components	CAS-No.
44.015%	Permethrin	52645-53-1
8.803%	Imidacloprid	138261-41-3
0.44%	Pyriproxyfen	95737-68-1
30 - 60%	Amine Derivative	

4. FIRST AID MEASURES

General advice: Take off all contaminated clothing immediately.

If inhaled: Remove to fresh air. Call a physician immediately.

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: If swallowed, seek medical advice immediately and show this container or label.

Contact Number: Use the Bayer Emergency Number in Section 1

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5. FIREFIGHTING MEASURES

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

Unsuitable extinguishing media: High volume water jet

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

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

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment.

Methods for 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.

Additional advice: No special precautions required.

Further Accidental Release Notes No special precautions required.

7. HANDLING AND STORAGE**Handling:**

Avoid formation of aerosol. Only handle product with local exhaust ventilation. Avoid contact with skin, eyes and clothing.

No special protective measures against fire required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Amine Derivative**

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides
Time Weighted Average (TWA): 10 ppm, 40 mg/m³

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

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Skin designation: Can be absorbed through the skin.

Respiratory protection:

Recommended Filter type: Organic vapor with prefilter

None required for consumer use of this product.

Hand protection:

Chemically resistant gloves.

None required for consumer use of this product.

Eye protection:

Safety glasses

None required for consumer use of this product.

Other protective measures:

Wear suitable protective equipment.

Please consult label for end-user requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid	
Colour:	tan	
Odour:	very faint	
Odour Threshold:	No applicable information is available	
Melting point:	No applicable information is available	
Boiling point/boiling range:	195 °C	DIN 53171
Density:	1.1360 g/cm ³ at 68 °F (20 °C)	DIN 51757
Bulk density:	No applicable information is available	
Vapour pressure:	No applicable information is available	
Viscosity, dynamic:	No applicable information is available	
Viscosity, kinematic:	No applicable information is available	
Flow time:	No applicable information is available	
Surface tension:	No applicable information is available	
Miscibility with water:	immiscible	
Water solubility:	No applicable information is available	
pH:	3.0 - 5.5 at 100 g/l	DIN 51369
Relative density:	No applicable information is available	
Partition coefficient:	No applicable information is available	
Solubility(ies):	No applicable information is available	
Flash point:	185 °F (85 °C)	
Flammability (solid, gas):	No applicable information is available	
Ignition temperature:	No applicable information is available	
Explosion limits:	No applicable information is available	

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10. STABILITY AND REACTIVITY**Conditions to avoid:** No data available**Materials to avoid:** Peroxides, Bases, Strong acids**Hazardous reactions:** No data available**Thermal decomposition:**

No data available

Hazardous decomposition products:Carbon monoxide (CO), Carbon dioxide (CO₂)**Oxidizing properties:**

No statements available.

Impact sensitivity:No data available

11. TOXICOLOGICAL INFORMATION**Other information on toxicity:**

Permethrin

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).

Other information on toxicity:

Amine Derivative

Dermal absorption possible

Acute oral toxicity:LD₅₀ Rat , female : > 2,000 mg/kg

May be harmful if swallowed.

Method: OECD 425

Acute inhalation toxicity:LC₅₀ Rat: > 2.86 mg/l, 4 h

Harmful if inhaled.

Method: OECD 403

Acute dermal toxicity:LD₅₀ Rat: > 5,000 mg/kg

The substance or mixture has no acute dermal toxicity

Method: OECD 402

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Skin irritation:

Rabbit

Result: Moderate skin irritation

Method: OECD 404

Eye irritation:

Rabbit

Result: Moderate eye irritation

Method: OECD 405

Sensitisation:

Skin sensitization guinea pig

Result: Does not cause skin sensitisation.

Method: Buehler Test

Genotoxicity in vitro:

pyriproxyfen

Ames test

Result: negative

V79-HPRT Forward Mutation Assay

Result: negative

In vitro Cytogenetic Test

Result: negative

Unscheduled DNA Synthesis Test

Result: negative

Amine Derivative

Bacterial mutagenicity

Result: No evidence of a gene mutagenic effect.

Imidacloprid

Ames test

Result: negative

In vitro tests did not show mutagenic effects

Genotoxicity in vivo:

pyriproxyfen

Micronucleus test, Mouse

Result: No evidence of a genotoxic effect.

Amine Derivative

In vivo tests did not show mutagenic effects

Imidacloprid

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

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Carcinogenicity:

pyriproxyfen

Rat:

Result: negative

Amine Derivative

Result: Animal testing did not show any carcinogenic effects.

Imidacloprid

Result: Animal testing did not show any carcinogenic effects.

Reproductive toxicity:

pyriproxyfen

Result: Animal studies have produced no evidence of toxic effects on reproduction.

Imidacloprid

Result: Animal studies have produced no evidence of toxic effects on reproduction.

Teratogenicity:

pyriproxyfen

Rat: Result: Did not show teratogenic effects in animal experiments.

Rabbit: Result: Did not show teratogenic effects in animal experiments.

Amine Derivative

Result: May damage the unborn child.

Imidacloprid

Result: Animal studies have produced no evidence of harmful effects on development.

Pharmaceutic effects:

Permethrin

Insecticide

pyriproxyfen

Insecticide

Imidacloprid

Insecticide

Carcinogenicity:

No Carcinogenic substances as defined by IARC, NTP and/or OSHA

STOT - single exposure:

No data available

STOT - repeated exposure:**Components:****138261-41-3 :**

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

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12. ECOLOGICAL INFORMATION**General advice:**

Do not allow to enter surface waters or groundwater.

Toxicity to fish:

Permethrin

LC50 0.0076 mg/l

Test species: *Poecilia reticulata* Duration of test: 48 h

pyriproxyfen

Acute Fish toxicity: LC50 0.33 - 0.37 mg/l

Test species: *Oncorhynchus mykiss* (rainbow trout) Duration of test: 96 h

Amine Derivative

Acute Fish toxicity: LC50 > 500 mg/l

Test species: *Leuciscus idus* (Golden orfe) Duration of test: 96 h

Imidacloprid

Acute Fish toxicity: LC50 280 mg/l

Test species: *Cyprinus carpio* (Carp) Duration of test: 96 h

Acute Fish toxicity: LC50 211 mg/l

Test species: *Oncorhynchus mykiss* (rainbow trout) Duration of test: 96 h

Acute Fish toxicity: LC50 237 mg/l

Test species: *Leuciscus idus* (Golden orfe) Duration of test: 96 h**Toxicity to daphnia and other aquatic invertebrates:**

Permethrin

EC50 37 µg/l

Test species: *Daphnia magna* (Water flea) Duration of test: 48 h

Method: OECD 202

EC50 0.00017 mg/l

Test species: *Daphnia magna* (Water flea) Duration of test: 48 h

pyriproxyfen

EC50 0.4 mg/l

Test species: *Daphnia magna* (Water flea) Duration of test: 48 h

Amine Derivative

LC50 > 1,000 mg/l

Test species: *Daphnia magna* (Water flea) Duration of test: 24 h

Imidacloprid

EC50 0.055 mg/l

Test species: *Hyalella azteca* Duration of test: 96 h**Toxicity to algae:**

Permethrin

EC50 0.5 mg/l

Duration of test: 72 h

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pyriproxyfen

IC50 0.064 mg/l

tested on: Pseudokirchneriella subcapitata (green algae) Duration of test: 72 h

Amine Derivative

EC50 > 500 mg/l

tested on: Desmodesmus subspicatus (green algae) Duration of test: 72 h

Imidacloprid

EC50 > 100 mg/l

tested on: Pseudokirchneriella subcapitata (green algae) Duration of test: 72 h

EC50 > 10 mg/l

tested on: Desmodesmus subspicatus (green algae) Duration of test: 72 h

Toxicity to bacteria:

Amine Derivative

EC20 > 600 mg/l

Duration of test: 0.5 h

Method: OECD 209

Imidacloprid

EC50 > 10,000 mg/l

tested on: activated sludge micro-organism

Method: OECD 209

Biodegradability:

Permethrin

0 %, 28 d Not rapidly biodegradable

pyriproxyfen

Not readily biodegradable.

Method: OECD 301 D

Amine Derivative

> 90 %, rapidly biodegradable

Method: OECD 301 E

Bioaccumulation:

pyriproxyfen

Bioconcentration factor (BCF)

ca. 1,500

Imidacloprid

Low potential for bioaccumulation

13. DISPOSAL CONSIDERATIONS

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)

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

14. TRANSPORT INFORMATION

Land transport (CFR)
non-regulated

US Sea transport (IMDG)
non-regulated

US Air transport (ICAO / IATA cargo aircraft only)
non-regulated

US Air transport (ICAO / IATA passenger and cargo aircraft)
non-regulated

International IATA

UN Number	3082
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN, IMIDACLOPRID, N-METHYLPYRROLIDONE)
Class	9
Packaging group	III
Dangerous goods labels	9
Environmentally hazardous	yes

International IMDG

UN Number	3082
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN, IMIDACLOPRID, N-METHYLPYRROLIDONE)
Class	9
Packaging group	III
IMDG-Labels	9
EmS Number	F-A
Marine pollutant	yes

15. REGULATORY INFORMATION

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FIFRA Status

This product is registered with the EPA under FIFRA.

US. Toxic Substances Control Act

This product is excluded from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)**Components**

None

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**Components**

Permethrin

Amine Derivative

US. EPA CERCLA Hazardous Substances (40 CFR 302) Components

None

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists

Weight percent	Components	CAS-No.
30 - 60%	Permethrin	52645-53-1
30 - 60%	Amine Derivative	

New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists

Weight percent	Components	CAS-No.
30 - 60%	Permethrin	52645-53-1
30 - 60%	Amine Derivative	

California Prop. 65

Weight percent	Components	CAS-No.
30 - 60%	Amine Derivative	

OSHA Hazcom Standard Rating

Hazardous

16. OTHER INFORMATION

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Further information

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

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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.