

SAFETY DATA SHEET

122000010774

Advantage Household Fogger

Version 1.0

Revision Date 10/18/2013

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information**

Product Name: Advantage Household Fogger
MSDS Number: 122000010774

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**

CAUTION! Highly flammable, Do not pierce or burn, even after use. Do not spray on a naked flame, incandescent material and heated equipment. Colour: milky Form: aerosol emulsion Odour: characteristic.
Harmful if absorbed through skin.

GHS Classification:

Flammable aerosols : Category 1

GHS Label element:

Hazard pictograms :



Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

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Precautionary statements : **Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Response:
P391 Collect spillage.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification:

None known.

Hazard Communication (29CFR 1910.1200)

Skin Contact Eye Contact

Hazardous under 29 CFR 1910.1200

Acute Inhalation Hazards If misted or handled at elevated temperatures, high concentrations can produce irritation and/or difficulty breathing.

Acute Eye Hazards May cause irritation with symptoms of reddening, tearing and stinging.

Acute Ingestion Hazards Expected to be harmful.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Weight percent	Components	CAS-No.
10 - 30%	Tradeseecret	
5 - 10%	Tradeseecret	

Other Ingredients	Components	CAS-No.
Weight percent 0.1%	Piperonyl butoxide	51-03-6
0.05%	Pyrethrum Extract	8003-34-7
0.1%	Esfenvalarate	66230-04-4

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0.16%	N-(2-Ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide	113-48-4
0.1%	pyriproxyfen	95737-68-1

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

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Any

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

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

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. Use adequate ventilation. Keep people away from and upwind of spill/leak.

Methods for cleaning up: Suppress (knock down) gases/vapours/mists with a water spray jet. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Place in closed containers. Label for proper disposal.

Additional advice: Keep away from/remove sources of ignition. Possible need to alert the neighbourhood.

Further Accidental Release Notes Keep away from/remove sources of ignition. Possible need to alert the neighbourhood.

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7. HANDLING AND STORAGE**Handling:**

Use product only in closed system.

Take measures to prevent the build up of electrostatic charge. Keep away from open flames, hot surfaces and sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Pyrethrum Extract (8003-34-7)**

US. ACGIH Threshold Limit Values

Time Weighted Average (TWA): 5 mg/m³

US. NIOSH: Pocket Guide to Chemical Hazards

Recommended exposure limit (REL): 5 mg/m³

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

PEL: 5 mg/m³**Respiratory protection:**

Recommended Filter type: HEPA

Hand protection:

Chemically resistant gloves.

Eye protection:

Safety glasses

Other protective measures:

Wear suitable protective equipment.

Please consult label for end-user requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	emulsion
Colour:	milky
Odour:	characteristic
Odour Threshold:	No applicable information is available
Melting point:	No applicable information is available
Boiling point/boiling range:	No applicable information is available
Density:	0.966 g/cm ³
Bulk density:	No applicable information is available

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Vapour pressure:	No applicable information is available
Viscosity, dynamic:	2,913.3 mPa.s at 69.98 °F (21.1 °C)
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:	7.1
Relative density:	No applicable information is available
Partition coefficient:	No applicable information is available
Solubility(ies):	No applicable information is available
Flash point:	This aerosol is NOT classified as FLAMMABLE by the flame extension test method described in 16 CFR 1500.45.
Flammability (solid, gas):	No applicable information is available
Ignition temperature:	No applicable information is available
Explosion limits:	No applicable information is available

10. STABILITY AND REACTIVITY

Conditions to avoid: no data available

Materials to avoid: Oxidizing agents

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

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Acute oral toxicity:

Tradeseecret

The substance or mixture has no acute oral toxicity

Piperonyl butoxide

LD50 rat: 6,150 mg/kg

Pyrethrum Extract

LD50 rat: 200 mg/kg

N-(2-Ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide

LD50 rat, female: 4,220 mg/kg

LD50 rat, male: 4,990 mg/kg

Tradeseecret

LD50 rat: > 8,000 mg/kg

The substance or mixture has no acute oral toxicity

pyriproxyfen

LD50 rat: > 5,000 mg/kg

The substance or mixture has no acute oral toxicity

Acute inhalation toxicity:

Tradeseecret

The substance or mixture has no acute inhalation toxicity

Piperonyl butoxide

LC50 rat: > 5.9 mg/l, 4 h

N-(2-Ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide

LC50 rat: 4.08 mg/l, 4 h

Tradeseecret

LC50 rat: > 44 mg/l

pyriproxyfen

LC50 rat: > 1.3 mg/l, 4 h

(highest technical producible concentration)

Acute dermal toxicity:

LD50 rat: > 2,000 mg/kg

Skin irritation:

rabbit

Result: Moderate skin irritation

Eye irritation:

Tradeseecret

Rapid evaporation of the liquid may cause frostbite.

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N-(2-Ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide
rabbit

slight irritation According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Tradeseecret

Result: Eye irritation

pyriproxyfen

rabbit

Result: Moderate eye irritation

Sensitisation:

guinea pig

Result: Does not cause skin sensitization.

Subacute, subchronic and prolonged toxicity:

N-(2-Ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide

NOEL 50 mg/kg, rat, Exposure time 24 month

Chronic

NOEL 250 ppm, dog, Exposure time 12 month

Chronic

NOEL 450 mg/kg, rat, Exposure time 24 month

Oncogenicity

NOEL 50 mg/kg, mouse, Exposure time 18 month

Oncogenicity

NOEL 400 mg/kg, rat, Exposure time 3 month

Subchronic toxicity

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

Genotoxicity in vivo:

pyriproxyfen

Micronucleus test, mouse

Result: No evidence of a genotoxic effect.

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Carcinogenicity:

pyriproxyfen

rat:

Result: negative

Reproductive toxicity:

N-(2-Ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide

rat: NOAEL: > 10000 mg/kg

pyriproxyfen

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

Teratogenicity:

N-(2-Ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide

rat: NOAEL: 1000 mg/kg

rabbit: NOAEL: 100 mg/kg

pyriproxyfen

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

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

Pharmaceutic effects:

pyriproxyfen

Insecticide

Carcinogenicity:

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

STOT - single exposure:

no data available

STOT - repeated exposure:

no data available

12. ECOLOGICAL INFORMATION**General advice:**

Do not allow to enter surface waters or groundwater.

Toxicity to fish:

N-(2-Ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide

LC50 1.4 mg/l

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

LC50 2.3 mg/l

Test species: Lepomis macrochirus (Bluegill) Duration of test: 96 h

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Tradeseecret

Acute Fish toxicity: LC50 > 1,000 mg/l

Test species: Salmo gairdneri Duration of test: 96 h

pyriproxyfen

Acute Fish toxicity: LC50 0.33 - 0.37 mg/l

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

Toxicity to daphnia and other aquatic invertebrates:

N-(2-Ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide

LC50 2.3 mg/l

Tradeseecret

EC50 > 1,000 mg/l

Duration of test: 48 h

pyriproxyfen

EC50 0.4 mg/l

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

Toxicity to algae:

pyriproxyfen

IC50 0.064 mg/l

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

Biodegradability:

pyriproxyfen

Not readily biodegradable.

Method: OECD Test Guideline 301D

Bioaccumulation:

pyriproxyfen

Bioconcentration factor (BCF)

ca. 1,500

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)****Proper shipping name:** AEROSOLS

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Hazard Class or Division: 2.2
UN/NA Number: UN1950
Packaging group: None
Hazard Label(s): Non-Flammable Gas

US Sea transport (IMDG)

Proper shipping name: AEROSOLS
Hazard Class or Division: 2.2
UN number: UN1950
Packaging group: None
Hazard Label(s): NON-FLAMMABLE, NON-TOXIC GASES

US Air transport (ICAO / IATA cargo aircraft only)

Proper shipping name: AEROSOLS
Hazard Class or Division: 2.2
UN/ID Number: UN1950
Packaging group: None
Hazard Label(s): NON-FLAMMABLE, NON-TOXIC GAS

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

Proper shipping name: AEROSOLS
Hazard Class or Division: 2.2
UN/ID Number: UN1950
Packaging group: None
Hazard Label(s): NON-FLAMMABLE, NON-TOXIC GAS

International IATA

UN Number: 1950
Description of the goods: AEROSOLS, NON-FLAMMABLE
Class: 2.2
Dangerous goods labels: 2.2
Environmentally hazardous: yes

International IMDG

UN Number: 1950
Description of the goods: AEROSOLS
(ESFENVALERATE)
Class: 2.2
IMDG-Labels: 2.2
EmS Number: F-D
Marine Pollutant: yes

15. REGULATORY INFORMATION

Other regulations: No statements available.

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

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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

None

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

None

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

Weight percent	Components	CAS-No.
0.1 - 1%	Piperonyl butoxide	51-03-6

California Prop. 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

OSHA Hazcom Standard Rating Hazardous

16. OTHER INFORMATION

HMIS Rating

Health	1
Flammability	4
Physical Hazard	

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

* = Chronic Health Hazard

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 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.