



Equicare Flysect Super-C Repellent Concentrate

Safety Data Sheet

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Version: 1.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Name : Equicare Flysect Super-C Repellent Concentrate
Synonyms : 3006290, EPA Reg. No. 270-301

1.2. Recommended use and restrictions on use

Recommended use : Insecticide.
Restrictions on use : Keep out of reach of children. Avoid contact with eyes, skin or clothing.

1.3. Supplier

Farnam Companies, Inc.
1501 E. Woodfield Road, Suite 200W
Schaumburg, IL 60173

www.farnam.com

1.4. Emergency telephone number

Emergency number : 1-800-234-2269
1-800-424-9300 - CHEMTREC
1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Serious eye damage/eye irritation Category 1
Skin sensitization, Category 1

Causes serious eye damage
May cause an allergic skin reaction

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



GHS05

GHS07

Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

May cause an allergic skin reaction
Causes serious eye damage

Precautionary statements (GHS US) :

Avoid breathing dust/fume/gas/mist/vapors/spray.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center or doctor.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification :

This pesticide is toxic to aquatic organisms, including fish and invertebrates. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Permethrin	(CAS-No.) 52645-53-1	1
Pyrethrins	(CAS-No.) 8003-34-7	0.5
Piperonyl butoxide	(CAS-No.) 51-03-6	1.85
N-Octyl Bicycloheptene Dicarboximide	(CAS-No.) 113-48-4	3.1
Di-n-propyl Isocinchomeronate	(CAS-No.) 136-45-8	2.5
Polyethylene glycol mono(octylphenyl) ether	(CAS-No.) 9036-19-5	1 – 5
Non hazardous ingredients	(CAS-No.) N/A	Balance

Comments : * The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.
- First-aid measures after ingestion : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after skin contact : Contact with permethrin may cause reversible skin sensations (paresthesia) which may include numbing, burning or tingling. May cause an allergic reaction in individuals with a sensitivity to n-octyl bicycloheptene dicarboximide.
- Symptoms/effects after eye contact : Causes serious eye damage.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : Avoid heavy hose streams.

5.2. Specific hazards arising from the chemical

- Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid breathing vapors or fumes. Avoid contact with skin, eyes and clothing.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: Exposure controls/personal protection.
- Emergency procedures : Do NOT wash away into sewer. Avoid release to the environment. Stop leak if safe to do so. Ventilate area. Wear appropriate personal protective equipment, avoid direct contact. No flames, no sparks. Eliminate all sources of ignition.

6.2. Environmental precautions

Avoid release to the environment.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Handle and open container with care. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Keep away from sources of ignition - No smoking.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from sunlight. Keep cool. Avoid extreme temperatures. Keep container tightly closed. Keep only in original container. Store in a well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials : Strong acids. Strong bases. Strong oxidizers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Pyrethrins (8003-34-7)		
ACGIH	ACGIH OEL TWA	5 mg/m ³
ACGIH	Remark (ACGIH)	Liver dam; LRT irr
OSHA	OSHA PEL TWA	5 mg/m ³
IDLH	IDLH	5000 mg/m ³
NIOSH	NIOSH REL TWA	5 mg/m ³

8.2. Appropriate engineering controls

Appropriate engineering controls : Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Not required for normal conditions of use. In case of insufficient ventilation or if exposure limits are exceeded, use NIOSH approved respiratory protection.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : White to yellow-white liquid

Color : White to yellow-white

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Odor	: Solvent
Odor threshold	: No data available
pH	: 5.25
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 93.3 °C (> 200 °F) (TCC)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability	: Not applicable
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 1.004 @ 20 °C (68 °F)
Solubility	: Partially miscible in water
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: < 10 cP @ 21.2 °C (70.16 °F)
Explosion limits	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization will not occur.

10.4. Conditions to avoid

Avoid extreme temperatures. Avoid excessive heat and freezing conditions. Heat, sparks, open flame and ignition sources.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce toxic fumes/vapors including oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Permethrin (52645-53-1)	
LD50 oral rat	adult female LD50 • 2280 mg/kg; adult male LD50 • 3580 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	5.3 mg/l/4h
Pyrethrins (8003-34-7)	
LD50 oral rat	2370 mg/kg Adult male; 1030 mg/kg Adult female
LD50 dermal rat	2000 mg/kg
LC50 Inhalation - Rat	3.4 mg/l/4h
Piperonyl butoxide (51-03-6)	
LD50 oral rat	4300 mg/kg
LD50 dermal rat	> 2000 mg/kg

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Piperonyl butoxide (51-03-6)	
LC50 Inhalation - Rat	> 5 mg/l/4h
N-Octyl Bicycloheptene Dicarboximide (113-48-4)	
LD50 oral rat	5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	1.98 mg/l/4h
Di-n-propyl Isocinchomeronate (136-45-8)	
LD50 oral rat	5230 mg/kg
LD50 dermal rabbit	9400 mg/kg
LC50 Inhalation - Rat	> 6.09 mg/l/4h

GHS-US Properties	Classification
Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Not classified
Aspiration hazard	Not classified

Potential health effects

Inhalation

Acute : Under normal conditions of use, no health effects are expected.

Skin

Acute : May cause slight skin irritation. May cause an allergic reaction in individuals with a sensitivity to n-Octyl bicycloheptene dicarboximide. Contact with permethrin may cause reversible skin sensations (paresthesia) which may include numbing, burning or tingling.

Eye

Acute : Causes serious eye damage.

Ingestion

Acute : Under normal conditions of use, no health effects are expected.

Mutagenicity

: Permethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. Pyrethrins were not found to be genotoxic and did not damage DNA in any study conducted which included: Ames assay, chromosome aberration in Chinese hamster ovaries (CHO) cells and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells. Piperonyl butoxide was not mutagenic in a battery of tests. N-octyl bicycloheptene dicarboximide was concluded to be negative in the CHO chromosome aberration assay. Di-n-propyl isocinchomeronate is not a mutagen.

Carcinogenicity

: Permethrin is not classified as carcinogen by OSHA, IARC or NTP. Pyrethrins are not listed as a carcinogen by OSHA, IARC, or NTP. Piperonyl butoxide is not classified as a carcinogen by IARC, NTP, OSHA. Di-n-propyl Isocinchomeronate is classified by US EPA as a B2-probable human carcinogen, it is not listed by OSHA, IARC or NTP. N-octyl bicycloheptene dicarboximide is not listed by OSHA, IARC or NTP as a carcinogen.

Reproductive Effects

: Permethrin does not cause developmental or reproductive effects. Pyrethrins did not produce any birth defects or adverse effects on reproductive parameters in tests with rats and rabbits. Piperonyl butoxide did not produce any birth defects or adverse effects on reproductive parameters in tests with rats and rabbits. N-octyl bicycloheptene dicarboximide has been tested and is not a reproductive toxin. Di-n-propyl isocinchomeronate showed adverse effects on reproduction in laboratory animals.

SECTION 12: Ecological information

12.1. Toxicity

Permethrin (52645-53-1)	
LC50 Acute fish 1	0.00079 mg/l (Exposure time: 96h - Blue gill)
LC50 Acute fish 2	0.0022 mg/l (Exposure time: 96h - Atlantic silverside)

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Permethrin (52645-53-1)	
LC50 Acute crustacea 1	0.000019 mg/l (Exposure time: 96h - Mysid shrimp)
LC50 Acute crustacea 2	0.0001 mg/l (Hexagenia bilineuta)
NOEC Chronic fish 1	0.0003 mg/l
NOEC Chronic fish 2	0.00083 mg/l (Sheepshead minnow)
NOEC Chronic crustacea 1	0.000039 mg/l (Daphnia magna)
NOEC Chronic crustacea 2	0.000011 mg/l (Mysid shrimp)
Pyrethrins (8003-34-7)	
LC50 Acute fish 1	0.0051 mg/l (Exposure time: 96h - Rainbow trout)
LC50 Acute fish 2	0.016 mg/l (Exposure time: 96h - Sheepshead minnow)
LC50 Acute crustacea 1	0.0014 mg/l (Exposure time: 96h - Mysid shrimp)
LC50 Acute crustacea 2	0.0116 mg/l (Exposure time: 48h Daphnia)
NOEC Chronic fish 1	0.0019 mg/l (Fathead minnow)
NOEC Chronic fish 2	0.0059 mg/l (Sheepshead minnow - Estimated)
NOEC Chronic crustacea 1	0.00086 mg/l (Daphnia magna)
NOEC Chronic crustacea 2	0.0001 mg/l (Mysid shrimp - Estimated)
Piperonyl butoxide (51-03-6)	
LC50 Acute fish 1	1.9 mg/l (Rainbow trout)
LC50 Acute fish 2	3.94 mg/l (Sheepshead minnow)
LC50 Acute crustacea 1	0.49 mg/l (Mysid shrimp)
LC50 Acute crustacea 2	0.51 mg/l (Gammarus fasciatus (amphipod))
NOEC Chronic fish 1	0.04 mg/l (Fathead minnow)
NOEC Chronic crustacea 1	0.03 mg/l (Daphnia magna)
N-Octyl Bicycloheptene Dicarboximide (113-48-4)	
LC50 Acute fish 1	1.4 – 2.4 mg/l
LC50 Acute crustacea 1	2.3 mg/l (Exposure time: 48h Daphnia)
Di-n-propyl Isocinchomeronate (136-45-8)	
LC50 Acute fish 1	1 mg/l (Exposure time: na - Rainbow trout)
LC50 Acute fish 2	0.44 mg/l (Exposure time: 96h - Blue gill)
LC50 Acute crustacea 1	18 mg/l (Exposure time: 48h Daphnia)

12.2. Persistence and degradability

Permethrin (52645-53-1)	
Persistence and degradability	Permethrin: not rapidly biodegradable.
Pyrethrins (8003-34-7)	
Persistence and degradability	Pyrethrins have low persistence in the environment due to rapid breakdown in presence of UV light.

12.3. Bioaccumulative potential

Permethrin (52645-53-1)	
Partition coefficient n-octanol/water (Log Pow)	5.95
Bioaccumulative potential	Permethrin: Bioconcentration factor (BCF) 300; Does not bioaccumulate.

12.4. Mobility in soil

Permethrin (52645-53-1)	
Mobility in soil	Permethrin: Immobile in soil

12.5. Other adverse effects

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Ecological Fate	This pesticide is toxic to aquatic organisms, including fish and invertebrates. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds.

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SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport information

	UN number	Proper Shipping Name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	UN3082	Packaging greater than 200 lbs.: Environmentally hazardous substance, liquid, n.o.s (Pyrethrins and permethrin)	9	III	RQ = Pyrethrins 1 lb.
IMDG	UN3082	Packaging greater than 5 L.: Environmentally hazardous substance, liquid, n.o.s (Pyrethrins and permethrin)	9	III	Marine pollutant
IATA	UN3082	Packaging greater than 5 L.: Environmentally hazardous substance, liquid, n.o.s (Pyrethrins and permethrin)	9	III	Acute aquatic toxicity

SECTION 15: Regulatory information

15.1. US Federal regulations

Permethrin (52645-53-1)	
Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1 %
Pyrethrins (8003-34-7)	
CERCLA RQ	1 lb listed under Pyrethrins
Piperonyl butoxide (51-03-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1 %
Di-n-propyl Isocinchomeronate (136-45-8)	
Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1 %
Polyethylene glycol mono(octylphenyl) ether (9036-19-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
EPA Labelling	
EPA Registration Number	270-301
This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.	
FIFRA Hazard statements	Caution
FIFRA Precautionary statements	KEEP OUT OF REACH OF CHILDREN.
FIFRA Hazards to Humans and Domestic Animals	Humans: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Animals: Avoid contact with eyes or mucous membranes. Do not treat puppies, kittens or foals under 12 weeks of age. Do not use on horses or foals intended for slaughter. Consult a veterinarian before applying this product on medicated, debilitated, aged, pregnant or nursing animals. Sensitivities may occur after using ANY pesticide product for pets. If signs of sensitivity occur, bathe you pet with mild soap and rinse with large amount of water. If signs continue, consult a veterinarian immediately.
FIFRA First aid	If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.
FIFRA Environmental hazards	This pesticide is toxic to aquatic organisms, including fish and invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for

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	the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.
FIFRA Physical hazards	Keep away from heat or open flame. Do not apply to painted or finished wood surfaces

15.2. US State regulations

No additional information available

SECTION 16: Other information

Issue date	: 30 August 2016
Revision date	: 23 February 2024
Supersedes	: 25 April 2022

Indication of changes:

Revised Sec. 11: Toxicological information.

SDS US (GHS HazCom 2012) - CGP

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.