Safety Data Sheet



Section 1: Identification

Product identifier

Product Name • Bronco^e Equine Fly Spray Plus Citronella Scent

Synonyms • 100502327; 100502328; 100532239; EPA Reg. No.: 270-329

Product Description
 Clear colorless liquid.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use • Insecticide.

Restrictions on use
 Avoid contact with skin and eyes. Keep out of reach of children and pets.

Details of the supplier of the safety data sheet

Manufacturer • Farnam Companies, Inc.

1501 E. Woodfield Road, Suite 200W

Schaumburg, IL 60173

United States

www.farnam.com

Emergency telephone number

Manufacturer • 1-800-234-2269

Manufacturer (Transportation) • 1-800-424-9300 - CHEMTREC

Manufacturer (Transportation) • 1-703-527-3887 - CHEMTREC - Outside the US collect calls accepted

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 • Skin Sensitization 1

Label elements
OSHA HCS 2012

WARNING



Hazard statements · May cause an allergic skin reaction

Precautionary statements

Prevention • Avoid breathing dust, fume, gas, mist, vapors and/or spray.

Contaminated work clothing should not be allowed out of the workplace.

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OSHA HCS 2012

Wear protective gloves.

Response • IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Storage/Disposal • Dispose of content and/or container in accordance with local, regional, national, and/or

international regulations.

Other hazards
OSHA HCS 2012

This product is extremely toxic to aquatic organisms, including fish and invertebrates. This product is extremely 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 not considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

Material does not meet the criteria of a substance.

Mixtures

Composition					
Chemical Name Identifiers %					
Prallethrin	CAS:23031-36-9	0.033%			
Permethrin	CAS:52645-53-1	0.1%			
Piperonyl butoxide	CAS:51-03-6	0.5%			
Other ingredients	NDA	Balance			

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms persist.

Skin

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Eye

IF IN EYES: Rinse with water for several minutes. Get medical attention if symptoms occur.

Ingestion

IF SWALLOWED: Do not induce vomiting unless told to by a poison control center or doctor. Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

An allergic skin reaction may occur in individuals with a sensitivity to piperonyl

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Indication of any immediate medical attention and special treatment needed

Notes to Physician

· Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media • In case of fire use media as appropriate for surrounding fire.

Unsuitable Extinguishing

· None known.

Media

Special hazards arising from the substance or mixture

Unusual Fire and Explosion

None known.

Hazards

Hazardous Combustion

None known.

Products

Advice for firefighters

Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Use appropriate Personal Protective Equipment (PPE). Ventilate enclosed areas.

Wash thoroughly with soap and water after handling.

Emergency Procedures

Ventilate closed spaces before entering. Avoid release into the environment.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

Stop leak if you can do it without risk.

SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

LARGE SPILLS: Dike far ahead of spill for later disposal.

Section 7 - Handling and Storage

Precautions for safe handling

Use good safety and industrial hygiene practices. Avoid contact with skin or eyes.

Conditions for safe storage, including any incompatibilities

Storage

•

Keep this product in its tightly closed original container, when not in use. Store in a cool, dry area that is inaccessible to children and pets. Protect from freezing or high temperatures.

Section 8 - Exposure Controls/Personal Protection

Control parameters

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OSHA HCS 2012

Exposure controls

Engineering

Measures/Controls

No data available.

Personal Protective Equipment

Pictograms



Respiratory
Not required with normal use.
Hands
Not required with normal use.
Wear protective gloves.

Skin/Body •

It is recommended for handlers to wear appropriate clothing to prevent skin contact including long sleeves, long pants, socks and shoes.

Environmental Exposure Controls

· Avoid release to the environment.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description				
Physical Form	Liquid	Appearance/Description	Clear colorless liquid.	
Color	Colorless		Sweet citrus.	
Odor Threshold	No data available			
General Properties	-	-	-	
Boiling Point	No data available	Melting Point/Freezing Point	No data available	
Decomposition Temperature	No data available	рН	8.2	
Specific Gravity/Relative Density	= 1.001 @ 20 °C(68 °F) Water=1	Water Solubility	No data available	
Viscosity < 10 Centipoise (cPs, cP) or @ 25 °C(77 °F)				
Volatility	•	•	•	
Vapor Pressure	No data available	Vapor Density	No data available	
Evaporation Rate No data available				
Flammability	-	•	-	
Flash Point	> 200 °C(> 392 °F) TCC (Tagliabue Closed Cup)	UEL	No data available	
LEL	No data available	Autoignition	No data available	
Flammability (solid, gas) Not Flammable.				
Environmental	-	-	-	
Octanol/Water Partition coefficient	No data available			

Section 10: Stability and Reactivity

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

· Stable under normal temperatures and pressures.

Possibility of hazardous reactions

· Hazardous polymerization will not occur.

Conditions to avoid

No data available.

Incompatible materials

· No data available.

Hazardous decomposition products

No data available.

Section 11 - Toxicological Information

Information on toxicological effects

	CAS	
Broncoe Equine Fly Spray Plus Citronella Scent	NDA	Irritation: Eye-Rabbit • Essentially non-irritating; Skin-Rabbit • Essentially non-irritating

GHS Properties	Classification			
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met			
Skin corrosion/Irritation	OSHA HCS 2012 • Classification criteria not met			
Serious eye damage/Irritation	OSHA HCS 2012 • Classification criteria not met			
Skin sensitization	OSHA HCS 2012 • Skin Sensitizer 1			
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met			
Aspiration Hazard	OSHA HCS 2012 • Classification criteria not met			
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met			
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met			
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met			
STOT-SE	OSHA HCS 2012 • Classification criteria not met			
STOT-RE	OSHA HCS 2012 • Classification criteria not met			

Route(s) of entry/exposure Potential Health Effects Inhalation

· Inhalation, Ingestion, Eyes, and Skin

Acute (Immediate)

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

Chronic (Delayed)

No data available.

Skin

Acute (Immediate)

May cause an allergic reaction in individuals with a sensitivity to piperonyl butoxide.

Chronic (Delayed)

· No data available

Eye

Acute (Immediate)

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

Chronic (Delayed)

· No data available.

Ingestion

Acute (Immediate) Chronic (Delayed)

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

No data available.

Mutagenic Effects

Prallethrin is not a mutagen. Permethrin was not mutagenic in a battery of in vitro and in vivo tests. Piperonyl butoxide was not mutagenic in a battery of tests.

Carcinogenic Effects

Prallethrin is not classified as carcinogen by NTP, IARC and OSHA. Permethrin is not classified as carcinogen by NTP, IARC and OSHA. Piperonyl butoxide is not classified as carcinogen by NTP, IARC and OSHA. No other components present at 0.1% or greater are listed by IARC, OSHA or NTP.

Reproductive Effects

Prallethin is not a reproductive toxicant. Permethrin does not cause developmental or reproductive effects. Piperonyl butoxide did not produce any birth defects or adverse effects on reproductive parameters in tests with rats and rabbits.

Section 12 - Ecological Information

Toxicity

Components					
Prallethrin (0.033%)	23031-36-9	Aquatic Toxicity-Fish: 96 Hour(s) LC50 Rainbow Trout 0.012 mg/L [Acute] 96 Hour(s) LC50 Blue Gill 0.022 mg/L [Acute] 96 Hour(s) LC50 Sheepshead Minnow 0.026 mg/L [Acute] NOEC Rainbow Trout 0.003 mg/L [Chronic] Aquatic Toxicity-Crustacea: NOEC Daphnia magna 0.00065 mg/L [Chronic] 48 Hour(s) LC50 Daphnia magna 0.0062 mg/L [Acute]			
Permethrin (0.1%)	52645-53-1	Aquatic Toxicity-Fish: 96 Hour(s) LC50 Blue gill 0.00079 mg/L [Acute] 96 Hour(s) LC50 Atlantic silverside 0.0022 mg/L [Acute] NOEC Fathead minnow 0.0003 mg/L [Chronic] NOEC Sheepshead minnow 0.00083 mg/L [Chronic] Aquatic Toxicity-Crustacea: NOEC Daphnia magna 0.000039 mg/L [Chronic] NOEC Mysid shrimp 0.000011 mg/L [Chronic] LC50 Hexagenia bilineuta 0.0001 mg/L [Acute] 96 Hour(s) LC50 Mysid shrimp 0.000019 mg/L [Acute]			
Piperonyl butoxide (0.5%)	51-03-6	Aquatic Toxicity-Fish: LC50 Rainbow Trout 1.9 mg/L [Acute] LC50 Sheephead minnow 3.94 mg/L [Acute] NOEC Fathead minnow 0.04 mg/L [Chronic] Aquatic Toxicity-Crustacea: LC50 Gammarus fasciatus (amphipod) 0.51 mg/L [Acute] LC50 Mysid shrimp 0.49 mg/L [Acute] NOEC Daphnia magna 0.03 mg/L [Chronic]			

Persistence and degradability

· Permethrin: not rapidly biodegradable.

Bioaccumulative potential

• Permethrin: Bioconcentration factor (BCF) 300; Does not bioaccumulate.

Mobility in Soil

· Permethrin: Immobile in soil.

Other adverse effects

Potential Environmental Effects

This product is extremely toxic to fish and aquatic invertebrates and extremely toxic to bees exposed to direct treatment or to residues on crop or weeds.

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OSHA HCS 2012

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not empty into drains.

Packaging waste

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. See product label for disposal instructions.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable
IMO/IMDG	UN3082	Packaging > 5L: Environmentally Hazardous Substance, Liquid, n.o.s. (Permethrin)	9	Ш	Marine Pollutant
IATA/ICAO	UN3082	Packaging > 5L: Environmentally Hazardous Substance, Liquid, n.o.s. (Permethrin)	9	III	Acute Aquatic Toxicity

Special precautions for user • None known.

Transport in bulk according to Annex II of MARPOL 73/78

Not relevant.

and the IBC Code Other information

IMO/IMDG • No data available

IATA/ICAO · No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • SARA Title III Section 313, Acute

FIFRA – Pesticide Labeling

This material 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 nonpesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

Precautionary Statements • KEEP OUT OF REACH OF CHILDREN.

Environmental Hazards •

This product is extremely toxic to aquatic organisms, including fish and aquatic invertebrates. To protect the environment, do not allow pesticide to enter or runoff into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. This pesticide is extremely 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 foraging the treatment area.

Inventory				
Component	CAS	TSCA		
Permethrin	52645-53-1	No		
Prallethrin	23031-36-9	No		
Piperonyl butoxide	51-03-6	Yes		

United States

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U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Piperonyl butoxide 51-03-6 concentration

Section 16 - Other Information

Revision Date

- 25/October/2017

Last Revision Date

- 23/August/2016

Preparation Date

- 23/August/2016

Disclaimer/Statement of Liability

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WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.

Revision Statement • Updated Section 1