# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

078923279

N/A

# MATERIAL SAFETY DATA SHEET BRONCO EQUINE FLY SPRAY PLUS

CITRONELLA SCENT

Printed: 10/06/2011 Revision: 10/06/2011

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Supercedes Revision: 05/18/2010

# 1. Product and Company Identification

Product Code: 270-294-A

Product Name: BRONCO EQUINE FLY SPRAY PLUS CITRONELLA SCENT

**Manufacturer Information** 

Company Name: Distributed by:

Farnam Companies, Inc. 301 West Osborn Road

Phoenix, AZ

Emergency Contact: Animal or human exposure (800)234-2269

Alternate Emergency Contact: CHEMTREC (Emergency spills) (800)424-9300

Information: Farnam Companies (800)234-2269

Chemical Family: compound

**Additional Identity Information** 

1 qt 14810 1 gal 14805

# 2. Composition/Information on Ingredients

Ha	zardous Components (Chemical Name)	CAS#	Concentration	OSHA PEL	ACGIH TLV
1.	Pyrethrins and Pyrethroids	8003-34-7	0.05 %	No data.	No data.
2.	Piperonyl butoxide	51-03-6	0.5 %	No data.	No data.
3.	Permethrin	52645-53-1	0.1 %	No data.	No data.

# 3. Hazards Identification

#### **Emergency Overview**

KEEP OUT OF REACH OF CHILDREN

Route(s) of Entry: Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes

#### **Potential Health Effects (Acute and Chronic)**

No data available.

LD 50 / LC 50

oral>5g/kg; dermal>2g/kg; LC50 >3.55mg/l

Signs and Symptoms Of Exposure

None known

**Medical Conditions Generally Aggravated By Exposure** 

None known

### 4. First Aid Measures

#### **Emergency and First Aid Procedures**

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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 eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF ON SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control center or doctor for treatment advice.

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5.	Fire	Fial	ntina	ı Mea	sures

> 200.00 FFlash Pt:

LEL: No data. UEL: No data. **Explosive Limits:** 

**Autoignition Pt:** NA

**Fire Fighting Instructions** 

None

Flammable Properties and Hazards

None known

**Hazardous Combustion Products** 

None known

**Extinguishing Media** 

No data available.

**Unsuitable Extinguishing Media** 

None known

## 6. Accidental Release Measures

#### Steps To Be Taken In Case Material Is Released Or Spilled

Soak up with absorbent material such as sand or sawdust and discard with chemical waste.

# 7. Handling and Storage

#### **Precautions To Be Taken in Handling**

Avoid breathing spray mist. Avoid contact with eyes, skin or clothing. Harmful if swallowed.

#### **Precautions To Be Taken in Storing**

Store in a cool, dry place. Do not store near heat or open flame.

# 8. Exposure Controls/Personal Protection

#### **Respiratory Equipment (Specify Type)**

none usually

**Eye Protection** 

none

**Protective Gloves** 

none

**Other Protective Clothing** 

#### **Engineering Controls (Ventilation etc.)**

Local Exhaust: sufficient

Special:

Mechanical (Gen):

Other:

#### **Work/Hygienic/Maintenance Practices**

Wash hands before eating, smoking or using restroom.

# 9. Physical and Chemical Properties

[X]Liquid **Physical States:** [ ] Gas

No data. **Melting Point:** 100.00 C **Boiling Point:** 

**Autoignition Pt:** NA

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Flash Pt: > 200.00 F

Specific Gravity (Water = 1): 1.002 at 25.0 C

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Evaporation Rate: No data.

Solubility in Water: No data.

**Solubility Notes** 

soluble

Percent Volatile: No data.
pH: 7.0

**Appearance and Odor** 

Light amber to clear, slight oily with citronella scent.

# 10. Stability and Reactivity

Stability: Unstable [ ] Stable [ X ]

**Conditions To Avoid - Instability** 

No data available.

**Incompatibility - Materials To Avoid** 

No data available.

**Hazardous Decomposition Or Byproducts** 

None known

Hazardous Polymerization: Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Polymerization** 

No data available.

# 11. Toxicological Information

Not available

#### **Chronic Toxicological Effects**

No data available.

На	azardous Components (Chemical Name)	CAS#	NTP	IARC	ACGIH	OSHA
1.	Pyrethrins and Pyrethroids	8003-34-7	n.a.	n.a.	A4	n.a.
2.	Piperonyl butoxide	51-03-6	n.a.	n.a.	n.a.	n.a.
3.	Permethrin	52645-53-1	n.a.	n.a.	n.a.	n.a.

# 12. Ecological Information

This product is extremely toxic to fish. Do not apply directly to any body of water. Do not contaminate water when disposing of equipment washwaters.

# 13. Disposal Considerations

#### **Waste Disposal Method**

If empty: Do not reuse this container. Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

## 14. Transport Information

**LAND TRANSPORT (US DOT)** 

**DOT Proper Shipping Name** Not regulated as hazardous by U.S. DOT.

**DOT Hazard Label:** None

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#### **Additional Transport Information**

No data available.

# 15. Regulatory Information

No data available.

# 16. Other Information

### **Company Policy or Disclaimer**

The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification.

## Safety Data Sheet



#### **Section 1: Identification**

**Product identifier** 

Product Name • Bronco<sup>e</sup> 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.

• 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.

Preparation Date: 23/August/2016 Revision Date: 25/October/2017 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

Preparation Date: 23/August/2016 Revision Date: 25/October/2017 butoxide. Refer to Section 11 - Toxicological Information.

## 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** Media

None known.

### Special hazards arising from the substance or mixture

Unusual Fire and Explosion

· None known.

**Hazards** 

None known.

**Products** 

Advice for firefighters

**Hazardous Combustion** 

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

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

Format: GHS Language: English (US) 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	Odor	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 mPas @ 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.

**Mutagenic Effects** 

No data available.

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  96 Hour(s) LC50 NOEC Fathead in NOEC Sheepshe Aquatic Toxici NOEC Mysid shi LC50 Hexageni		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.

> Format: GHS Language: English (US) OSHA HCS 2012 Page 6 of 8

## **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	III	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**

#### Environment-

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

• Piperonyl butoxide 51-03-6

# 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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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.

Revision Statement • Updated Section 1

concentration