SAFETY DATA SHEETS

This SDS packet was issued with item: 078923279

N/A

oduct and Company	Identification	on
270-294-A		
BRONCO EQUINE FLY SPR	AY PLUS CITRO	ONELLA SCENT
Distributed by:		
Farnam Companies, Inc.		
·		
·	(800)234	1-2269
•		
	, , ,	
·	(800)234-2	2269
compound		
position/Information	on Ingredi	ents
CAS # Concentration	OSHA PEL	ACGIH TLV
		No data.
		No data. No data.
		No data.
3. Hazards identifie	cation	
		Induction? Voc
	Eyes? res	Ingestion? Yes
Chronic)		
0 > 3.55 mg/l		
0 >3:35mg/1		
avated By Exposure		
4. First Aid Meas		
	270-294-A BRONCO EQUINE FLY SPR Distributed by: Farnam Companies, Inc. 301 West Osborn Road Phoenix, AZ Animal or human exposure CHEMTREC (Emergency spi Farnam Companies compound Dosition/Information CAS # Concentration 8003-34-7 0.05 % 51-03-6 0.5 % 52645-53-1 0.1 % 3. Hazards Identifie	BRONCO EQUINE FLY SPRAY PLUS CITRO Distributed by: Farnam Companies, Inc. 301 West Osborn Road Phoenix, AZ Animal or human exposure (800)234 CHEMTREC (Emergency spills) (800) Farnam Companies (800)234-2 compound Compound Composition/Information on Ingredi 8003-34-7 0.05 % No data. 51-03-6 0.5 % No data. 52645-53-1 0.1 % No data. 52645-53-1 0.1 % No data. 3. Hazards Identification HLDREN Inhalation? Yes Skin? Yes Eyes? Yes Chronic) 0 >3.55mg/l

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 Fighting Measures > 200.00 F Flash 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

none

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				
Physical States:	[]Gas [X]Liquid []Solid			
Melting Point:	No data.			
Boiling Point:	100.00 C			
Autoignition Pt:	NA			

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	CITR	ONELL	LA SCENT	Supercedes F	Revision: 05/18/2010
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					
	10. Stabili				
Stability:	Unstable []	Stable	[X]		
Conditions To Avoid - Instability					
No data available.					
ncompatibility - Materials To Avoio No data available.	3				
Hazardous Decomposition Or Byp	roducts				
None known	oddolo				
Hazardous Polymerization:	Will occur [] Will no	ot occur [X]		
Conditions To Avoid - Hazardous F		•			
No data available.	-				
	11. Toxicol	ogical I	nformation		
Not available					
Chronic Toxicological Effects					
No data available.					
azardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
Pyrethrins and Pyrethroids Piperonyl butoxide	8003-34-7 51-03-6		n.a. n.a.	A4 n.a.	n.a. n.a.
Permethrin	52645-53-1		n.a.	n.a.	n.a.
	12. Ecolo	aical In	formation		
This product is extremely toxic		<u> </u>		ater. Do not conta	minate water
when disposing of equipment w		ppij aneen	y to any body of w		innute water
	13. Dispos	al Cons	iderations		
Waste Disposal Method					
If empty: Do not reuse this cont	tainer Place in tr	ash or offer	for recycling if av	ailable. If partly fi	lled Call your
local solid waste agency for dis			• •		-
	-	-	ormation		
AND TRANSPORT (US DOT)		portini	ormation		
	Not regulated	oo bozorda			
DOT Proper Shipping Name	-	as nazardo	ous 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^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	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 t	he safety data sheet
Manufacturer	Farnam Companies, Inc.
	1501 E. Woodfield Road, Suite 200W Schaumburg, IL 60173 United States
	www.farnam.com
Emergency telephone nu	mber
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.

	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

•• •• • • •	
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.
Eye	IF IN EYES: Rinse with water for several minutes. Get medical attention if symptoms occur.
• Skin	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
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.

Most important symptoms and effects, both acute and delayed

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

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 Hazards	None known.			
Hazardous Combustion Products	None known.			

Advice for firefighters

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

Section 6 - Accid	ental Release	Measures
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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 fo	r 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 indust	rial hygiene practices. Avoid co	ontact 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

Exposure controls	
Engineering Measures/Controls	No data available.
Personal Protective Equipme	nt
Pictograms	
Respiratory	Not required with normal use.
Eye/Face	Not required with normal use.
Hands	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	pН	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 · Inhalation, Ingestion, Eyes, and Skin **Potential Health Effects** Inhalation 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

	 Under normal conditions of use, no health effects are expected. 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%)23031-36-996 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]		96 Hour(s) LC50 <i>Sheepshead Minnow</i> 0.026 mg/L [Acute] NOEC <i>Rainbow Trout</i> 0.003 mg/L [Chronic] Aquatic Toxicity-Crustacea: NOEC <i>Daphnia magna</i> 0.00065 mg/L [Chronic]	
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

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.
Other adverse effects	
	Permethrin: Immobile in soil.
Mobility in Soil	
	 Permethrin: Bioconcentration factor (BCF) 300; Does not bioaccumulate.
Bioaccumulative potent	ial
	Permethrin: not rapidly biodegradable.

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	ATA/ICAO UN3082 Packaging > 5L: Environmentally Hazardous Substance, Liquid, n.o.s. (Permethrin)		9	Ш	Acute Aquatic Toxicity

Special precautions for user • None known.

Transport in bulk according • Not relevant. to Annex II of MARPOL 73/78 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 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.

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		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		
• Permethrin	52645-53-1	1.0 % de minimis concentration
Prallethrin	23031-36-9	Not Listed
Piperonyl butoxide	51-03-6	1.0 % de minimis concentration

Section 16 - Other Information			
Revision Date	 25/October/2017 		

 Last Revision Date
 • 23/August/2016

 Preparation Date
 • 23/August/2016

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 Revision Statement
 • Updated Section 1