

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Name** Prefurred Plus for Dogs  
**EPA Registration No.** 2517-140-53883

**CAS #** Mixture

**Product use** Kills and repels fleas and ticks  
**Manufacturer** Control Solutions, Inc.  
5903 Genoa-Red Bluff

Phone: 1-800-242-5562  
Fax: 281-892-2501

**SafetyCall International** 1-866-897-8050

## 2. Hazards Identification

**Emergency overview** CAUTION  
Combustible liquid. Keep away from heat and flame.  
EYE IRRITANT

**Potential short term health effects**

**Routes of exposure** Eye, Skin contact, Skin absorption, Inhalation, Ingestion.

**Eyes** Causes moderate eye irritation.

**Skin** May cause irritation. Harmful if absorbed through the skin.

**Inhalation** May cause respiratory tract irritation.

**Ingestion** Harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Target organs** Eyes. Skin. Respiratory system. Digestive tract.

**Chronic effects** May cause allergic reaction in sensitive individuals.

**Signs and symptoms** Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**OSHA Regulatory Status** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Potential environmental effects** Not available

## 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Diethylene glycol monoethyl ether	111-90-0	60 - 80
Cyphenothrin	39515-40-7	2.5 - 10
Fipronil	120068-37-3	2.5 - 10

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## 4. First Aid Measures

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### First aid procedures

<b>Eye contact</b>	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.
<b>Skin contact</b>	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.
<b>Inhalation</b>	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
<b>Ingestion</b>	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.
<b>Notes to physician</b>	Treat patient symptomatically.
<b>General advice</b>	Keep away from sources of ignition. No smoking. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

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## 5. Fire Fighting Measures

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<b>Flammable properties</b>	Combustible by OSHA criteria.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Carbon dioxide. Alcohol foam. Water spray. Dry chemical. Water Fog.
<b>Unsuitable extinguishing media</b>	Not available
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Not Available
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available
<b>Sensitivity to static discharge</b>	Not available

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## 6. Accidental Release Measures

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<b>Personal precautions</b>	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
<b>Environmental precautions</b>	Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for containment</b>	Stop leak if you can do so without risk.
<b>Methods for cleaning up</b>	Before attempting clean up, refer to hazard data given above. Never return spills in original containers for re-use. Small Spills: Absorb with non-reactive absorbent and place in suitable, covered, labeled containers. Large Spills: Wet down with water and dike for later disposal. After removal flush contaminated area thoroughly with water. Contact emergency services and supplier for advice.

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## 7. Handling and Storage

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<b>Handling</b>	Use good industrial hygiene practices in handling this material. Do not get in eyes, on skin or clothing. When using do not eat or drink. Wash thoroughly after handling.
<b>Storage</b>	Store in a cool dry place inaccessible to children and pets. Do not refrigerate. Protect from direct sunlight.

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## 8. Exposure Controls / Personal Protection

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### Exposure limits

#### Ingredient(s)

#### Exposure Limits

Cyphenothrin

**ACGIH-TLV**  
Not established  
**OSHA-PEL**  
Not established

Diethylene glycol monoethyl ether

**ACGIH-TLV**  
TWA: 25 ppm  
**OSHA-PEL**  
Not established

Fipronil

**ACGIH-TLV**  
Not established  
**OSHA-PEL**  
Not established

#### Engineering controls

General ventilation normally adequate.

#### Personal protective equipment

##### Eye / face protection

Wear safety glasses with side shields.

##### Hand protection

It is a good industrial hygiene practice to minimize skin contact. For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn. Confirm with reputable supplier first.

##### Skin and body protection

As required by employer code.

##### Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

##### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat or drink. Wash hands before breaks and immediately after handling the product.

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## 9. Physical and Chemical Properties

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<b>Appearance</b>	Clear
<b>Color</b>	Yellow
<b>Form</b>	Liquid
<b>Odor</b>	Faint/Pleasant
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Liquid
<b>pH</b>	Not available
<b>Freezing point</b>	Not available
<b>Boiling point</b>	Not available
<b>Pour point</b>	Not available
<b>Evaporation rate</b>	Not available
<b>Flash point</b>	> 194.00 °F (> 90 °C)
<b>Auto-ignition temperature</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Flammability limits in air, upper, % by volume</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Specific gravity</b>	Not available
<b>Octanol/water coefficient</b>	Not available
<b>Solubility (H<sub>2</sub>O)</b>	Not soluble
<b>Viscosity</b>	5 – 15 cP
<b>Bulk density</b>	1 – 1.05 g/cc

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## 10. Stability and Reactivity

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<b>Reactivity</b>	None known.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Avoid high temperatures. Do not mix with other chemicals.
<b>Incompatible materials</b>	Acids. Oxidizers.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon.

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## 11. Toxicological Information

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### Component analysis - LC50

Ingredient(s)	LC50
Cyphenothrin	Not available
Diethylene glycol monoethyl ether	5240 mg/l/4h rat
Fipronil	0.68 mg/l/4h rat

### Component analysis - Oral LD50

Ingredient(s)	LD50
Cyphenothrin	318 mg/kg rat
Diethylene glycol monoethyl ether	5500 mg/kg rat
Fipronil	100 mg/kg/rat

### Effects of acute exposure

<b>Eye</b>	Causes moderate irritation.
<b>Skin</b>	May cause irritation. Harmful if absorbed through the skin.
<b>Inhalation</b>	May cause respiratory tract irritation.
<b>Ingestion</b>	Harmful if swallowed. May cause stomach distress, nausea or vomiting.
<b>Sensitization</b>	Non-hazardous by OSHA criteria.
<b>Chronic effects</b>	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
<b>Carcinogenicity</b>	Non-hazardous by OSHA criteria.
<b>Mutagenicity</b>	Non-hazardous by OSHA criteria.
<b>Reproductive effects</b>	Non-hazardous by OSHA criteria.
<b>Teratogenicity</b>	Non-hazardous by OSHA criteria.
<b>Name of Toxicologically Synergistic Products</b>	Not available

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## 12. Ecological Information

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**Ecotoxicity** See below

### Ecotoxicity – Freshwater Fish – Acute Toxicity Data

Diethylene glycol monoethyl ether 111-90-0 96 Hr LC50 Oncorhynchus mykiss: 11400-15700 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 11600-16700 mg/L[flow-through]; 96 Hr LC 50 Lepomis macrochirus: 10000 mg/L[static]; 96 Hr LC50 Lepomis macrochirus: 19100-23900 mg/L[flow-through]; 96 hr LC50 Salmo gairdneri: 13400 mg/L[flow-through]

### Ecotoxicity - Water Flea - Acute Toxicity Data

Diethylene glycol monoethyl ether 111-90-0 48 Hr EC 50 Daphnia magna: 3940 – 4670 mg/L

<b>Persistence / degradability</b>	Not available
<b>Bioaccumulation / accumulation</b>	Not available
<b>Mobility in environmental media</b>	Not available
<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available
<b>Partition coefficient</b>	Not available
<b>Chemical fate information</b>	Not available

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## 13. Disposal Considerations

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**Disposal instructions**

Review federal, state and local government requirements prior to disposal. IF EMPTY:  
Do not reuse or refill this container. Offer for recycling if available.  
IF PARTLY FILLED: Call your local waste agency for disposal instructions. Never place  
unused product down any indoor or outdoor drain.

**Waste from residues / unused  
products**

Not available

**Contaminated packaging**

Not available

## 14. Transport Information

**U.S. Department of Transportation (DOT)**

Not regulated as dangerous goods.

**IMDG (Marine Transport)**

Not regulated as dangerous goods.

**IATA / ICAO (Air)**

Not regulated as dangerous goods.

## 15. Regulatory Information

**Occupational Safety and Health Administration (OSHA)**

**29 CFR 1910.1200 hazardous chemical**      Yes

**US Federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**CERCLA (Superfund) reportable quantity**

None

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**      Immediate Hazard - Yes  
    Delayed Hazard - No  
    Fire Hazard - Yes  
    Pressure Hazard - No  
    Reactivity Hazard - No

**Section 302 extremely hazardous substance**      No

**Section 311 hazardous chemical**      No

**Clean Air Act (CAA)**      Not available

**Clean Water Act (CWA)**      Not available

**State regulations**      This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**U.S. - Minnesota - Hazardous Substance List**

Diethylene glycol monoethyl ether 111-90-0      Present

**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No
A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)		

## 16. Other Information

LEGEND HMIS	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 2
Flammability	2
Physical Hazard	0
Personal Protection	B

**Disclaimer**

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not

be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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**Prepared by**

Control Solutions, Inc. Regulatory Department

**Other information**

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

Revision date

Sections revised

Supercedes MSDS dated