

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Prefurred Plus for Dogs

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

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

4. First Aid Measures

First aid procedures

Eye contact

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.

Skin contact

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.

Inhalation

If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion

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.

Notes to physician

Treat patient symptomatically.

General advice

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.

5. Fire Fighting Measures

Flammable properties

Combustible by OSHA criteria.

Extinguishing media

Suitable extinguishing media

Carbon dioxide. Alcohol foam. Water spray. Dry chemical. Water Fog.

Unsuitable extinguishing media

Not available

Protection of firefighters

Specific hazards arising from the chemical

Not Available

Protective equipment for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus

Hazardous combustion products

May include and are not limited to: Oxides of carbon.

Explosion data

Sensitivity to mechanical impact

Not available

Sensitivity to static discharge

Not available

6. Accidental Release Measures

Personal precautions

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.

Environmental precautions

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

Methods for containment

Stop leak if you can do so without risk.

Methods for cleaning up

Before attempting clean up, refer to hazard data given above and use appropriate personal protective equipment (PPE). 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.

7. Handling and Storage

Handling

Use good industrial hygiene practices in handling this material. Do not get in eyes or on clothing. When using do not eat or drink. Wash thoroughly after handling.

Storage

Store in a cool dry place inaccessible to children and pets. Do not refrigerate. Protect from direct sunlight

8. Exposure Controls / Personal Protection

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

9. Physical and Chemical Properties

Appearance	Clear
Color	Yellow
Form	Liquid
Odor	Faint/Pleasant
Odor threshold	Not available
Physical state	Liquid
pH	Not available
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation rate	Not available
Flash point	> 194.00 °F (> 90 °C)
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	Not available
Octanol/water coefficient	Not available
Solubility (H₂O)	Not soluble
Viscosity	5 – 15 cP
Bulk density	1 – 1.05 g/cc

10. Stability and Reactivity

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

11. Toxicological Information

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

Eye	Causes moderate 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.
Sensitization	Non-hazardous by OSHA criteria.
Chronic effects	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Carcinogenicity	Non-hazardous by OSHA criteria.
Mutagenicity	Non-hazardous by OSHA criteria.
Reproductive effects	Non-hazardous by OSHA criteria.
Teratogenicity	Non-hazardous by OSHA criteria.
Name of Toxicologically Synergistic Products	Not available

12. Ecological Information

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

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

13. Disposal Considerations

Disposal instructions

Review federal, state and local government requirements prior to disposal. Do not reuse or refill this container. IF EMPTY: Place in trash or 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

Issue date 15-Jul-2011
Effective date 01-Jul-2011
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