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Material Safety Data Sheet

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Document id : 08-1541-5 Issue date : 2007/09/25  
 Version : 7.00 Supersedes date : 2004/12/08

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1 Product Identification

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Tradename:  
 DURATROL MEC POULTRY DARKLING BEETLE SPRAY  
 Product ID:  
 70-2007-0499-0 70-2007-3955-8  
 Intended Use of Product:  
 Darkling Beetle Spray  
 Division:  
 3M CANADA COMPANY

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2 Composition/Information on Ingredients

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Ingredient Name	CAS Number	Percentage
WATER	7732-18-5	60 - 100
CHLORPYRIFOS	2921-88-2	10 - 20
ALIPHATIC PETROLEUM DISTILLATE	64742-14-9	7 - 10
POLYMERIC SHELL WALL MATERIAL	Trade Secret	1 - 2.3

NOTE:

Each percentage is expressed as the ratio of the weight of the ingredient to the weight of the controlled product.  
 Polymeric Shell Wall Material is a non-hazardous Trade Secret material according to WHMIS criteria.

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### 3 Hazards Identification

#### Critical Hazards:

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Very toxic by inhalation.

Toxic if swallowed.

See Sections 7 and 11 for further information.

### 4 First Aid Measures

#### Instructions for Eye Contact:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

#### Instructions for Skin Contact:

Immediately wash skin with soap and large amounts of water. Remove contaminated clothing. If signs/symptoms occur, call a physician. Wash contaminated clothing before reuse and dispose of contaminated shoes.

#### Instructions for Inhalation:

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

#### Instructions for Ingestion:

If swallowed: If conscious, induce vomiting immediately as directed by medical personnel.

#### Special Instructions:

Atropine by intravenous administration is the preferable antidote. Suggest serum and/or RBC cholinesterase determination. Treatment based on judgment of the physician in response to reactions of the patient.

### 5 Fire Fighting Measures

Flash point:	> 94 C
Lower Explosive Limit (%):	Not Available
Upper Explosive Limit (%):	Not Available
Autoignition temperature:	Not Available

#### Suitable Extinguishing Media:

Water; Carbon Dioxide; Dry chemical; Foam;

#### Exposure Hazards during Fire:

No data available.

#### Combustion Products from Fire:

Carbon monoxide and carbon dioxide;

Hydrogen chloride;

Toxic vapours, gases or particulates;

#### Fire Fighting Procedures:

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Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

NFPA: Health 3  
 NFPA: Fire 2  
 NFPA: Reactivity 0  
 NFPA: Unusual Reaction Hazard none

Special Instructions:

Runoff must be contained, may contain product which is toxic to fish and other marine organisms.

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## 6 Accidental Release Measures

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Personal Precautions:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill.

Spill Response:

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Contain spill. Ventilate the area with fresh air. Cover with absorbent material. Collect as much of the spilled material as possible. Clean up residue with water. Place in an approved metal container. Seal the container.

Methods for Disposal:

Do not release to waterways or sewer. Incinerate in a permitted hazardous waste incinerator in the presence of a combustible material. Combustion products will include HCl. Facility must be capable of handling halogenated materials.

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## 7 Handling and Storage

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Storage Requirements:

Keep container closed when not in use.

Incompatible Materials:

Heat;

Ventilation:

No data available.

Explosion Prevention:

Combustible liquid and vapour. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition.

Use Instructions:

Keep container tightly closed.

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## 8 Exposure Controls/Personal Protection

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Personal Protection

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Eye Protection:

Avoid eye contact.

The following should be worn alone or in combination, as appropriate, to prevent eye contact:

Unvented goggles

Hand Protection:

Wear appropriate gloves when handling this material.

The following glove material(s) are recommended:

nitrile rubber;

fluoroelastomer (Viton);

Skin Protection:

Avoid prolonged or repeated skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Respiratory Protection:

Avoid prolonged breathing of spray or mists.

Ingestion (Prevention):

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

Keep out of the reach of children.

Recommended Ventilation:

Use in a well-ventilated area.

Provide sufficient ventilation to maintain emissions below recommended exposure limits.

Ingredient Exposure Data

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WATER (7732-18-5)

LD50 (rat, oral) > 90 ml/kg

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

No data available.

CHLORPYRIFOS (2921-88-2)

LD50 (rat, oral) 82 mg/kg

LD50 (dermal, rabbit) 2 g/kg

LC50 (rat, inhalation/4 hours) 14 ppm

Exposure Limits

ACGIH: TWA 0.1 mg/m<sup>3</sup> (Inhalable) as vapour and aerosol; (skin contact contributes to exposure) (Table A4)

ALIPHATIC PETROLEUM DISTILLATE (64742-14-9)

Specific Ingredient Data

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No data available.

LD50 (rat, oral) No data available.

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

No data available.

POLYMERIC SHELL WALL MATERIAL (Trade Secret)

Specific Ingredient Data

No data available. No data available.  
 LD50 (rat, oral) No data available.  
 LC50 (rat, inhalation/4 hours) No data available.  
 Exposure Limits  
 No data available.

## 9 Physical and Chemical Properties

Physical form,Color,Odour:	Liquid; White; mercaptan odour;
Odour Threshold:	No data available.
pH:	7.5 - 8.5
Boiling point/boiling range:	100.0 C
Melting point/melting range:	Not Available
Vapour pressure:	Not Available
Water Solubility:	Complete
Specific gravity:	1.030 g/cc
Vapour density:	Not Available
Volatile organic compounds:	Not Available
Evaporation rate:	Not Available
Viscosity:	20.0 - 25.0 centipoise at 20 C
Percent Volatile:	No data available.

## 10 Stability and Reactivity

Conditions to Avoid:  
 Heat;

Materials to Avoid:  
 None known.

Hazardous Decomposition:  
 Carbon monoxide and carbon dioxide;  
 Hydrogen chloride;  
 Toxic vapours, gases or particulates;

Stability and Reactivity:  
 Stable. Hazardous polymerization will not occur.

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## 11 Toxicological Information

Effects from Eye Contact:  
 Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

Effects from Skin Contact:  
 Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. Mild Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, and itching.

Effects from Inhalation:  
 Nervous System Effects: signs/symptoms can include emotional changes, lack of coordination, tremors and sensory loss. Upper Respiratory Tract Irritation: Signs/symptoms may include cough,

sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Effects from Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting.

Sensitization Information:

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Carcinogenicity:

No data available.

Mutagenicity:

No data available.

Reproductive Effects:

No data available.

Component Based Information:

Toxic if swallowed.

Very toxic by inhalation.

Product Based Information:

No data available.

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## 12 Ecological Information

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Environmental Data:

Ecotoxicity Data:

No data available.

Ecofate Data:

Other Effects and Information:

Not determined. Since regulations vary, consult applicable regulations or authorities before disposal. Duratrol I - MEC Poultry Darkling Beetle Spray is toxic to fish and other marine organisms. Keep out of lakes and streams.

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## 13 Disposal Considerations

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Product as Sold:

No data available.

Product Packaging:

No data available.

Special Instructions:

Since regulations vary, consult applicable regulations or authorities before disposal.

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## 14 Transportation Information

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Transportation of Dangerous Goods

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TDG Classification:

Limited Quantity;

Proper Shipping Name:

Limited Quantity;

Special Information:

International Dangerous Goods Classification

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15 Regulatory Information

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WHMIS Classification: For Export Only.

Special Information:

Registered with PCPA. 24597

Registered with EPA. 10350-22

NOTE:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

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16 Other Information

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Reason for Reissue:

The following Sections and topics have been updated or revised:

Section 3 - Hazards Identification - Critical Hazards;

Section 4 - First Aid Measures;

Section 7 - Handling and Storage;

Section 8 - Exposure Controls/Personal Protection;

Section 11 - Toxicological Information;

Section 12 - Ecological Information

Section 13 - Disposal Considerations;

TDG classification change.

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