

MATERIAL SAFETY DATA SHEET

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SUMMIT CHEMICAL COMPANY
7657 Canton Center Drive
Baltimore, MD 21224 U.S.A.

SUMMIT OUTDOOR MOSQUITO REPELLENT COILS

SECTION 1 • IDENTIFICATION

IDENTITY:

SUMMIT OUTDOOR MOSQUITO REPELLENT COILS

EPA Registration No. 43917-8-6218

ACTIVE INGREDIENT CHEMICAL NAME:

d/l-allethrolone d-trans chrysanthemate

CHEMICAL FAMILY: Pyrethroid

Emergency Telephone Number: 1-800-664-9042 or

National Pesticide Information Center at 1-800-858-7378

Telephone Number for Information:

9 AM to 5 PM EST - 410-282-5200

Distributed By:

SUMMIT CHEMICAL COMPANY

7657 Canton Center Drive, Baltimore, MD 21224 U.S.A.

Date Prepared: April 20, 2005

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

Dangerous substances according to EEC norms about dangerous substances and preparations (67/548/EEC-1999/45/EC) and their classification

COMPONENTS	% w/w	EINECS	CAS RN	SYMBOL	R Phrases	S Phrases
Esbiothrin T.G. (d/l-allethrolone d-trans chrysanthemate)	0.15	209-542-4	584-79-2 (84030-86-4)	Xn - N	20/22- 50/53	2-36-60- 61
Benzoic acid	<1.0	200-618-2	65-85-0	Xi	36	22 - 26
Potassium nitrate	<1.0	N.A.	N.A.	O	22 - 34	23 - 26 36/37/39
Cartazine Green Y Liquid	<1.0	N.A.	N.A.	C	24 - 34	22 - 26 36/37/39
Emulsifier	<1.0	N.A.	N.A.	Xi	38 - 41- 52/53	26 - 37/39 61

SECTION 3 • HAZARDS IDENTIFICATION

HAZARDS TO HUMAN HEALTH:

The product is classified as not dangerous following directive 1999/45/EC.

EYE CONTACT: Possible irritation.

SKIN CONTACT: Possible irritation by prolonged contact (in work progress).

INGESTION: Possible nausea.

INHALATION: None.

See also Section 4

HAZARDS TO THE ENVIRONMENT:

The product is classified as not dangerous following directive 1999/45/EC.

Esbiothrin belongs to the pyrethroids family which are extremely toxic to all cold-blooded animals (invertebrates, fish, mollusks, bees, crustaceans...). DO NOT release in the environment. See also Sections 6 and 13.

SECTION 4 • FIRST AID MEASURES

First Aid in case of:

INGESTION: If the product is swallowed, seek medical advice showing the product's label. Do not induce vomiting.

INHALATION: No specific hazard.

SKIN CONTACT: Wash immediately with plenty of water and soap.

EYE CONTACT: Wash immediately with plenty of water.

SECTION 5 • FIRE FIGHTING MEASURES

EXTINGUISHABLE MEDIA:

SUITABLE: Powder, foam, water, CO₂.

UNSUITABLE: None.

SECTION 6 • ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTION: Wear gloves if the product has to be gathered after dispersion on soil

ENVIRONMENTAL PRECAUTION: Do not throw in the environment.

If water has been used to clean up avoid spillage in watercourses, sewerage system...

CLEAN UP METHODS: Use shovel to pick up the product.

SECTION 7 • HANDLING AND STORAGE

HANDLING: Keep out of reach of children. Do not contaminate food or drinking stuff or their containers. After usage or in case of contamination wash hands with water and soap.

STORAGE: Keep product in its packaging at room temperature and in dry places.

SECTION 8 • EXPOSURE CONTROL/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE CONTROLS: Components which have specific occupational limit values and/or biological limit values:

WOOD DUST: TLV = 5 mg/m³

Esbiothrin: CAS RN: 584-79-2 (84030-86-4)
(d/l-allethrolone
d-trans chrysanthemate) EINECS: 249-013-5
TWA - 3.8 mg/m³

RESPIRATORY PROTECTION: Dust mask.

HAND PROTECTION: Gloves.

EYE PROTECTION: Glasses

SKIN PROTECTION: Normal work overalls.

ENVIRONMENT EXPOSURE CONTROLS: See Section 13.

SECTION 9 • PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Green mosquito coil weighing about 12.0 grams

ODOR: Almost odorless.

pH: Not applicable.

BOILING POINT/BOILING RANGE: Not available.

MELTING POINT/MELTING RANGE: Not available.

FLASH POINT: Not available.

FLAMMABILITY: Not available.

AUTOFLAMMABILITY: Not available.

EXPLOSIVE PROPERTIES: Not applicable.

OXIDIZING PROPERTIES: Not applicable.

VAPOR PRESSURE: Not available.

RELATIVE DENSITY: Not available.

WATER SOLUBILITY: Almost immiscible.

OIL SOLUBILITY: Almost immiscible.

PARTITION COEFFICIENT: N-OCTONOL/WATER: Not available.

OTHER DATA: Evaporation of active ingredient by combustion's heat.

SECTION 10 • STABILITY AND REACTIVITY

CONDITIONS TO AVOID: See Section 7.

MATERIALS TO AVOID: Strong oxidents.

HAZARDOUS DECOMPOSITION PRODUCTS: Not available.

SECTION 11 • TOXICOLOGICAL INFORMATION

ORAL TOXICITY: Male rat LD₅₀ > 2000 mg/kg.

CUTANEOUS TOXICITY: Female rat LD₅₀ > 2000 mg/kg.

INHALATION: Not available.

SKIN CONTACT: Not available.

EYE CONTACT: Not available.

SECTION 12 • ECOLOGICAL INFORMATION

ECOTOXICITY:

LC₅₀ > (96h): 0.1 mg/l

EC₅₀ Daphnia Magna (49 h): 0.0089 mg/l

The above data are related to Esbiothrin

SECTION 13 • DISPOSAL CONSIDERATION

PRODUCT: Dispose of in accordance with Local Authority requirements.

PACKAGING: Empty boxes can be reused after recycling following EC directive 67/62.

SECTION 14 • TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT: RID/ADR (ADR2003): Not classified.

SEA FREIGHT: IMDG/IMO (amdt 31 - 02): Not classified.

AIR FREIGHT: ICAO/IATA (45th Edition): Not classified.

SECTION 15 • REGULATORY INFORMATION

CLASSIFICATION ACCORDING TO DANGEROUS SUBSTANCE AND PREPARATION NORMS:

R Sentences:

NONE.

RISK SYMBOL:

NONE

S SENTENCES / CAUTION ADVISES:

Harmful if swallowed. Avoid prolonged inhalation. Do not touch lit end of coil. Do not use indoors. Thoroughly wash hands with soap and water after use.

SECTION 16 • OTHER INFORMATION

This document complements the technical usage instructions but does not replace them. The information contained herein is based on our best current technical knowledge of the product concerned, and is given in good faith. The attention of recipients is drawn to (amongst other things) the element of risk consequent to use of the product for a purpose other than that for which it was intended.

In no way does this document remove the need of the recipient of the product to fully understand and apply statutory requirements. It is the recipient's sole responsibility to take due precautions relative to the use made of the product.

All information contained herein is included only to assist the recipient in fulfilling his or her statutory duty connected with the use of hazardous materials.

The list of information must not be considered as exhaustive, and does not exonerate the recipient from taking other precautions described in documents other than those mentioned, concerning the storage and use of the product, for which he or she remains the sole person responsible.

EPA REG. #43917-8-56

Pertinent R Phrases(Related to Substances and Preparations of Section 2):

R8: Contact with combustible material may cause fire.

R20/22: Harmful by inhalation and if swallowed.

R22: Harmful if swallowed

R34: Causes burns.

R36: Irritating to eyes.

R38: Irritating to skin.

R41: Risk of serious damage to eyes.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

REFERRING NORMS:

- Council Directive 67/548/EEC of June 27 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances and subsequent updatings.
- Directive 1999/45/EC of the European Parliament and the council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labeling of dangerous preparations.
- Commission Directive 91/155/EEC of 5 March 1991 defining and laying down the detailed arrangements for the system of specific information relating to dangerous preparations in implementation of Article 10 of Directive 88/379/EEC.
- Commission Directive 2001/58/EC of 27 July 2001 amending for the second time Directive 91/155/EEC defining and laying down the detailed arrangements for the system of specific information relating to dangerous preparations in implementation of Article 14 of European Parliament and Council Directive 1999/45/EC and relating to dangerous substances in implementation of Article 27 of Council Directive 66/548/EEC (safety data sheets) (Text with EEG relevance).
- Directive 98/9/EC of the European Parliament and of the Council of 16 February 1998 concerning the placing of biocidal products on the market.
- Council Directive 78/631/EEC on the classification, packaging and labeling of dangerous substances (pesticides).
- Directive 84/291/EEC adapting Directive 78/631/EEC (Pesticides).
- Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.
- Council Directive 91/689/EEC of 12 December 1991 on hazardous waste.
- European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.
- Council Directive 89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work.
- Council Directive 90/679/EEC of 26 November 1990 on the protection of workers from risks related to exposure to biological agents at work (seventh individual Directive within the meaning of Article 16 (1) of Directive 89/391/EEC).
- Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16 (1) of Directive 89/391/EEC).
- Council Directive 94/55/EC of 21 November 1991 on the approximation of the laws of the Member States which regard to the transport of dangerous goods by road, as amended, and, for the application of the restructured Annexes A and B, Commission directive 2003/28/EC of 07 April 2003.

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