

SAFETY DATA SHEET

Issued: 17 Jan 2014

Revision Number: 2

STAINSHIELD (WATER BASED) PROTECTOR WITH ALLERGY SHIELD (ACTIGARD ®)

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 PRODUCT IDENTIFIER:

Product name: STAINSHIELD (WATER BASED) PROTECTOR WITH ALLERGY SHIELD (ACTIGARD ®)

Product code: ST 14

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Intended Use: Water based ready-for-use product for the protection and hygiene of carpets, upholstery and fabrics.

Uses advised against: This product is not for use by the general public.

Reason why uses advised against: None given.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier: Stainshield Limited

PO Box 336

Oxshott

Leatherhead

Surrey

KT22 2DB

UK

Telephone number: +44(0)1372 841467

Fax Number: +44(0)1372 841465

Email: james@stain-shield.ltd.uk

1.4 EMERGENCY TELEPHONE NUMBER (NOT 24hrs)

Only available during office hours: +44(0)1372 841467

SECTION 2 HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF SUBSTANCE OR MIXTURE

2.1.1 Classification according to Regulation (EC) No 1272/2008

Flammable liquid Category 3, H226

Acute aquatic toxicity Category 1, H400

Chronic aquatic toxicity Category 1, H410

2.1.2 Classification according to EU Directive 67/548/EEC / 1999/45 EC

F; R10

N; R50/53

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2.1.3 Additional Information

For full text of R-phrases and Hazard and EU Hazard statements: see **SECTION 16**

2.2. LABEL ELEMENTS

Label elements according to Regulation (EC) No 1272/2008

Hazard Pictograms:



Signal Word:

Warning

Hazard Statements:

H226 Flammable liquid and vapour.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P273 Avoid release to the environment.

P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

Supplemental Information:

None detailed.

2.3 OTHER HAZARDS

None detailed.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

Not Applicable. This product is regulated as a mixture.

3.2 MIXTURES

Description of the mixture: Water and ethanolic mixture with Permethrin

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Hazardous ingredients:

Name	CAS No	EC No	REACH Registration No.	% (weight)	Classification according to 67/548/EEC	Classification according to Regulation (EC) No 1278/2008 (CLP)
Ethanol	64-17-5	200-578-6		10-20%	R11	Flam. Liq. 3 H225
Permethrine (ISO)	52645-53-1	258-067-9	-	0.092%	Xn; R20/22 R43 N; R50-53	Acute Tox. (Oral) 4 H302 Skin Sens 1 H317 Acute Tox. (Inh) 4 H332 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

Please see section 16 for full hazard statements and R-phrases

SECTION 4 FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

GENERAL NOTES

Remove any sources of ignition. Provide additional ventilation to the area where possible.

INHALATION

Remove source of contamination or move victim to fresh air. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection in enclosed places with poor ventilation. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

SKIN CONTACT

Wash contact areas with soap and water. Remove contaminated shoes and clothing as soon as possible. Wash contaminated clothing before reuse.

EYE CONTACT

No effects expected. If irritation occurs flush the contaminated eye(s) thoroughly with lukewarm, flowing water for 5 minutes, while holding the eyelid(s) open. Obtain medical advice.

INGESTION

Accidental ingestion at a level high enough to be dangerous to health is unlikely. Do not induce vomiting.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Acute: Unpredictable behaviour, dizziness, nausea or vomiting.

Delayed: None known.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

None known

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SECTION 5 FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable Extinguishing Media: Use water fog, alcohol resistant foam, dry chemical, carbon dioxide (CO₂), or water spray.

Unsuitable Extinguishing Media: None detailed.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

FLAMMABLE liquid. Heating may produce combustible vapour which can form explosive mixture with air.

Hazardous Combustion Products: Smoke, Fumes, Incomplete combustion products, Oxides of carbon

5.3 ADVICE FOR FIRE FIGHTERS

Fire Fighting Instructions: Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA).

Flammability Properties (extrapolated) (Ethanol):

Flash Point (Method): 12-13°C (Method: Closed Cup)

Upper/Lower Flammable Limits (Approximate volume % in air): UEL: 19.0 LEL: 3.3

Autoignition Temperature: Non data available

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

6.1.1 For non-emergency personnel

Protective equipment: Ensure area is as well ventilated as possible before tackling spillage. Avoid breathing vapours. Use -face or full-face respirator with filter(s) for organic vapour respiratory mask where available in confined areas.

Emergency procedure: Evacuate downwind if required. Keep unprotected persons and animals out of the area. Remove any ignition sources. Isolate and dike to confine the spill and absorb with a non-combustible absorbent such as clay, sand or soil. Vacuum, shovel or pump waste into a drum and label contents for disposal. Repeat if necessary. Avoid drains, soil or water courses. Leave small spillages to evaporate if safe to do so.

6.1.2 For emergency responders

Respiratory protection: half-face or full-face respirator with filter(s) for organic vapour and, when applicable, Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of

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exposure. Gloves recommended.

Small spills (<5L): Normal antistatic work clothes are usually adequate.

Large spills (>5L): Full body suit of chemical resistant, antistatic material is recommended.

6.2 ENVIRONMENTAL PRECAUTIONS

This product is dangerous for the environment. Keep away from drains, soil or water courses.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

6.3.1 For containment:

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Dyke far ahead of liquid spill for later recovery and disposal.

6.3.2 For cleaning up:

Collect with non combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/ national regulation (see section 13).

6.3.3 Other information: N/A

6.4 REFERENCE TO OTHER SECTIONS

See Sections 8 and 13.

SECTION 7 HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

The COSHH (Control of Substances Hazardous to Health) Regulations 2002 (as amended) apply to the use of this product at work. Avoid excessive contamination of coveralls. DO NOT CONTAMINATE FOODSTUFFS, EATING UTENSILS OR FOOD CONTACT SURFACES. This material and its container must be disposed of in a safe way. Do not empty into drains. REMOVE OR COVER ALL FISH TANKS AND BOWLS before application. UNPROTECTED PERSONS AND ANIMALS SHOULD BE KEPT AWAY FROM TREATED AREAS UNTIL SURFACES ARE DRY. HAZARDOUS TO BEES. DO NOT USE ON BEEHIVES OR BEEKEEPING EQUIPMENT. DO NOT APPLY TO CLOTHING OR HUMAN BEDDING. FOR INDOOR USE ONLY. WASH HANDS AND EXPOSED SKIN before meals and after use. Keep out of the reach of children. Keep away from food drink and animal feedingstuffs.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep containers tightly closed in dry, cool and well-ventilated place. Keep cool and in a safe place, where

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possible locked up. Only store in original packaging. Keep away from ignition sources.

7.3 SPECIFIC END USES:

For use only as an insecticide by professional operators. For use on upholstery, fabrics, carpets and rugs.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

8.1.1 Occupational Exposure Limit Values

Substance	CAS No	Workplace exposure limit	
		Long-term exposure limit (8-hr TWA reference period)	
		ppm	mg.m ⁻³
Ethanol	64-17-5	1000	1920

Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL) (Ethanol)

Route of exposure	Workers			
	Acute effects local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Inhalation	1900 mg.m ³ .day ⁻¹	No data	No data	950 mg.m ³ .day ⁻¹
Dermal	No data	No data	No data	343 mg.kg bw.day ⁻¹

Predicted No Effect Concentration (PNEC) (Ethanol)

Environmental protection target	PNEC
Fresh water	0.96 mg.l ⁻¹
Freshwater sediments	3.6 mg.kg ⁻¹ sediment dry weight
Marine water	0.79 mg.kg ⁻¹ sediment dry weight
Marine sediments	2.9 mg.l ⁻¹
Food chain	0.72 mg.l ⁻¹
Microorganisms in sewage treatment	580 mg.l ⁻¹
Soil (agricultural)	0.63 mg.kg ⁻¹ soil dry weight

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8.2 EXPOSURE CONTROLS

Treatment area	Risk of exposure	Application Rate	Area	Assigned Protection Factor (APF)	When applying PPE advised
Carpet protection	HIGH	1L per 14-16m ²	Normally Fixed – <i>in situ</i>	10	Reusable half mask – gas/vapour filter recommended
Fabric protection	MEDIUM	1L per 28-30m ²	Can be moved to more open area	10	Reusable half mask – gas/vapour filter recommended

8.2.1 Appropriate engineering controls

Ensure adequate ventilation. Open windows/ doors during treatment. Use humidity control and cooling systems where possible (air conditioning). Where possible take item to a large well ventilated area to treat. After application leave the area until carpet/ fabric is dry.

8.2.2 Individual protection measures, such as personal protective equipment

In case of insufficient ventilation wear suitable respiratory equipment. Guidance on suitable respiratory protective equipment and eye protection is provided in HSE Booklet HS(G)53: "The Selection, Use and Maintenance of Respiratory Protective Equipment - A Practical Guide". Gloves are recommended. Check with glove manufacturer for specific advice. Wash after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment.

8.2.3 Environmental exposure controls

Avoid release of product to drains, soil or water courses.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

- (a) Physical State: Off-white liquid
- (b) Odour: Barely perceptible odour
- (c) Odour Threshold: No data available
- (d) pH: 4 - 4.5
- (e) Melting Point: No data available
- Freezing Point: No data available
- (f) Boiling Point/ Boiling Range: No data available
- (g) Flash Point (Method): Estimated 45-50°C
- (h) Evaporation Rate: No data available
- (i) Flammability (Solid, Gas): No data available
- (j) Upper explosion limit: No data available

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Lower explosion limit:	No data available
(k) Vapour Pressure:	No data available
(l) Vapour Density (Air = 1):	No data available
(m) Relative Density (at 15 °C):	No data available
(n) Solubility(ies):	Miscible in water
(o) Partition coefficient (n-Octanol/Water Partition Coefficient):	No data available
(p) Autoignition Temperature:	No data available
(q) Decomposition Temperature:	No data available
(r) Viscosity:	No data available
(s) Explosive Properties:	No data available
(t) Oxidising Properties:	No data available

9.2 OTHER INFORMATION

Molecular Weight: No data available

SECTION 10 STABILITY AND REACTIVITY

10.1 REACTIVITY

Stable under ambient storage conditions

10.2 CHEMICAL STABILITY

Product is stable under normal conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reactions known during recommended use.

10.4 CONDITIONS TO AVOID

Heat, sparks, flames and other ignition sources.

10.5 INCOMPATIBLE MATERIALS

Strong oxidising materials

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

In case of fire hazardous decomposition products may be produced such as carbon oxides.

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SECTION 11 TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

1) Ethanol (or Read-across data from similar materials)

Acute toxicity:

Oral toxicity:

Method	Standard acute method (OECD Guideline 401)	Acute oral toxicity: Up-and-Down Procedure (OECD Guideline 425)	Standard acute method (OECD Guideline 401)	Acute toxic class method (OECD Guideline 401)
Read Across substance	No	No	No	No
Species	Rat	Rat	Rat	Rat
Routes of exposure	Oral: gavage	Oral: gavage	Oral: gavage	Oral: gavage
Endpoint	LD50	LD50	LD50	LD50
Effective Dose	10470 mg/kg bw	> 7692 mg/kg bw	15010 mg/kg bw	12400 mg/kg bw
Exposure time	One dose	One dose	One dose	One dose

Inhalation toxicity:

Method	Standard acute method (OECD Guideline 403)	Standard acute method (OECD Guideline 403)	Standard acute method (OECD Guideline 403)	Standard acute method (OECD Guideline 403)
Read Across substance	No	No	No	No
Species	Rat	Rat	Rat	Rat
Routes of exposure	Inhalation: vapour	Inhalation: vapour	Inhalation: vapour	Inhalation: vapour
Endpoint	LC50	LC50	LC50	LC50
Effective Dose	124.7 mg/L	116.9 mg/L	133.8 mg/L	51.3 mg/L
Exposure time	4 hours	4 hours	4 hours	6 hours

Dermal toxicity:

Method	Standard acute method (OECD Guideline 402)
Read Across substance	Yes
Species	Rabbit
Routes of exposure	No data
Endpoint	LD50
Effective Dose	17100 mg/kg bw
Exposure time	No data

Serious eye damage/ irritation:

Method	Standard acute method (OECD Guideline 404)	Standard acute method (OECD Guideline 405)	Standard acute method (OECD Guideline 404)
Read Across substance	Yes	Yes	Yes
Species	Rabbit	Rabbit	Rabbit
Routes of exposure	Skin: semi-occlusive	Eye	Skin: Occlusive
Dose	0.2 ml	0.1ml	Undiluted

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Result	Non irritating	fully reversible within: 4 days	fully reversible within: 48 hours
Exposure time	24 hours	7 days	72 hours

Respiratory or skin sensitisation:

Method	Skin Sensitisation: Local Lymph Node Assay (OECD Guideline 429)	In vivo (Mouse ear swelling test)	Guinea pig maximisation test (OECD Guideline 406)
Read Across substance	No	No	Yes
Species	Mouse	Mouse	Guinea pig
Routes of exposure	No data	Intradermal injection; topical challenge	dermal occlusive dressing; topical challenge
Dose	No data	No data	50%
Result	Not considered a dermal sensitiser	Not considered a dermal sensitiser	Not considered a dermal sensitiser

Germ cell mutagenicity:

Method	Mammalian cell gene mutation assay (OECD Guideline 476)	Bacterial reverse mutation assay (OECD Guideline 471)	Genetic Toxicology: Rodent Dominant Lethal Test (OECD Guideline 478)
Read Across substance	No	No	No
Species	mouse lymphoma L5178Y cells in vitro	<i>S. typhimurium</i> TA 1535, TA 97, TA 98, TA104 and TA 100	Mouse Oral: gavage
Dose	Without activation: 0.092, 0.184, 0.369, 0.553, 0.738 mol/l With activation: 0.414, 0.465, 0.517 mol/l	not cytotoxic up to 10000 µg/plate	2mls/kg 10 or 40%
Genotoxicity Result	Negative with and without metabolic activation	Negative with and without metabolic activation	Negative

Carcinogenicity:

Method	Carcinogenicity Study (OECD Guideline 451)	EPA OPPTS 870.4200 (Carcinogenicity)	Combined Chronic Toxicity / Carcinogenicity Study (OECD Guideline 453)
Read Across substance	No	No	Yes
Species	Rabbit	Mouse	Mouse
Routes of exposure	Oral: feed	Oral: drinking water	Inhalation : vapour
Endpoint	NOAEL	NOAEL	NOAEC
Dose	1% and 3% in diet	2.5 and 5% in water	0.013, 0.13, 1.3 mg/L
Effect Level	> 3000 mg/kg bw/day	> 4400 mg/kg bw/day	≥ 1.3 mg/L air
Exposure time	104 weeks	105 weeks	18 months

Reproductive toxicity:

Method	Two-Generation Reproduction Toxicity Study (OECD Guideline 416)	One-Generation Reproduction Toxicity Study (OECD Guideline 415)	One-Generation Reproduction Toxicity Study (OECD Guideline 415)
Read Across substance	No	Yes	No
Species	Mouse	Rat	Mouse
Routes of exposure	Oral: drinking water	Air in chamber	Oral: feed
Endpoint	NOAEL	NOAEL	NOAEC

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Dose	5, 10 and 15% v/v in water	0, 10000, 16000ppm	10 and 25%
Effect Level	15% no effect	≥ 16000 ppm	No effect
Exposure time	18 weeks	7 hours/ day	49 days

Summary of evaluation of the CMR properties:

Not considered to be a carcinogenic, mutagenic, or reproductive toxicant.

STOT-single exposure:

No data available.

STOT-repeated exposure:

No data available.

Aspiration hazard:

No data available.

Other information:

No data available.

2) Permethrin (or Read-across data from similar materials)

Acute toxicity:

Oral toxicity

Method	No data available	No data available	Fixed dose procedure (OECD Guideline 423)
Species	Rat	Rat	Rat
Routes of exposure	Oral: gavage	Oral: gavage	Oral: gavage
Endpoint	LD50	LD50	LD50
Effective Dose	383 mg/kg bw	424 mg/kg bw	2000 mg/kg bw
Exposure time	One dose	One dose	One dose

Inhalation toxicity

Method	No data available	No data available	No data available
Species	Rat	Mouse	Rat
Routes of exposure	Inhalation: vapour	Inhalation: vapour	Inhalation: vapour
Endpoint	LC50	LC50	NOAEL
Effective Dose	485 mg/m ³ air	685 mg/m ³ air	50 mg/m ³ air
Exposure time	No data available	No data available	3 hour/day

Dermal toxicity

Method	No data available	No data available	Standard acute method (OECD Guideline 402)
Species	Rabbit	Rabbit	Rat
Routes of exposure	Skin: No data available	Skin: No data available	Skin: No data available

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Endpoint	LD50	Mild reaction	LD50
Effective Dose	≥ 2000 mg/kg bw	5000 mg/kg bw	≥ 2000 mg/kg bw
Exposure time	No data available	24 hours	No data available

Serious eye damage/ irritation:

Method	OECD 405	No data available
Species	Rabbit	Rabbit
Routes of exposure	Eye	Eye
Dose	No data available	No data available
Result	Non-irritant	Non-irritant

Respiratory or skin sensitisation:

Method	OECD 406	OECD 405
Species	Guinea-pig	Guinea-pig
Routes of exposure	No data available	No data available
Dose	No data available	No data available
Result	Non-sensitiser	Non-sensitiser

Germ cell mutagenicity:

Method	Micronucleus test	DNA inhibition	Sister chromatid exchange
Species	Human Lymphocyte	Human Lymphocyte	Human Lymphocyte
Dose	10 mg/l	140 µmol/l	50 mg/l
Genotoxicity Result	Negative	Negative	Negative

Carcinogenicity:

No data available.

Reproductive toxicity:

Method	No data available
Species	Rat
Routes of exposure	Oral: gavage
Endpoint	No data available
Dose	250 mg/kg bw/day
Effect Level	No data available
Exposure time	7 days/ week

Summary of evaluation of the CMR properties:

Not considered to be a carcinogenic, mutagenic, or reproductive toxicant.

STOT-single exposure:

No data available.

STOT-repeated exposure:

No data available.

Aspiration hazard:

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No data available.

Other information:

No data available.

SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data available for substances detailed in section 3.2 unless otherwise specified.

12.1. TOXICITY

Acute (short-term) toxicity:

Fish:

Method	Fish, Acute toxicity Test (OECD Guideline 203)	No data available
Substance	Ethanol	Permethrine
Species	Fathead minnow (<i>Pimephales promelas</i>)	No data available
Routes of exposure	In water	No data available
Endpoint	LC50	No data available
Effective Dose	14.2 g/L	No data available
Exposure time	96 h	No data available

Crustacea:

No data available

Algae/ aquatic plants:

Method	Alga, Growth Inhibition Test (OECD Guideline 201)	Alga, Growth Inhibition Test (OECD Guideline 201)
Substance	Ethanol	Permethrin
Species	<i>Chlorella vulgaris</i>	<i>Pseudokirchnerella subcapitata</i>
Routes of exposure	in water	In water
Endpoint	EC50	EC50
Effective Dose	275 mg/l	540 µg/l
Exposure time	5 days	72 hr

Other organisms:

Method	Solvent toxicity to amphibian embryos and larvae	Acute oral toxicity
Substance	Ethanol	Permethrin
Species	Common frog	Northern bobwhite (bird)
Routes of exposure	in water	Oral: gavage
Endpoint	NOEC	LD50
Effective Dose	> 79 mg/l	> 2000 mg/kg/bw
Exposure time	48 hr	No data available

Chronic (long-term) toxicity:

Fish:

Method	QSAR modelled data (calculated)	No data available
Substance	Ethanol	Permethrin
Species	No data	No data available
Routes of exposure	in water	No data available
Endpoint	NOEC	No data available

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Effective Dose	245 mg/l	No data available
Exposure time	30 days	No data available

Crustacea:

No data available

Algae/ aquatic plants:

Method	EPA OTS 797.1160 (Aquatic Plant Toxicity Test using Lemna spp. Tiers I & II))	No data available
Substance	Ethanol	Permethrin
Species	Duckweed	No data available
Routes of exposure	in water	No data available
Endpoint	EC50	No data available
Effective Dose	5967 mg/l	No data available
Exposure time	7 days	No data available

Other organism:

No data available

12.2 PERSISTENCE AND DEGRADABILITY

Abiotic Degradation: Expected to be

Physical- and photo-chemical elimination: Permethrin is photolytic; however other substances present are not expected to be majorly photolytic

Biodegradation: The substances in this product are expected to be biodegradable

12.3 BIOACCUMULATIVE POTENTIAL

Partition coefficient n-octanol/ water (log Kow): Not determined

Bioconcentration factor (BCF): Ethanol estimated at 3.

12.4 MOBILITY IN SOIL

Known or predicted distribution to environmental compartments: Permethrin binds tightly to soil. Ethanol will partition rapidly to air. Not expected to partition to sediment and wastewater solids.

Surface tension: No data available

Adsorption/ Desorption: No data available

12.5 RESULTS OF PBT AND vPvB ASSESSMENT

This product does not contain any PBT or vPvB substances

12.6 OTHER ADVERSE EFFECTS

No adverse effects are expected.

12.7 ADDITIONAL INFORMATION

Half-life of permethrin in aerobic soils is 39.5 days, with a range from 11.6 to 113 days

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SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of waste and residues in accordance with local authority requirements.

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

13.1 WASTE TREATMENT METHODS

This mixture is suitable for disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products by a specialist company.

SECTION 14 TRANSPORT INFORMATION

14.1 – 14.6 This product is not regulated for carriage according to ADR/RID/ADN, IMDG, ICAO-TI/IATA-DGR

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Limited Quantity Exemptions: Maximum quantity per inner receptacle is 5 litres. Maximum quantity per outer package is 30 litres. Combination packs only.

SECTION 15 REGULATORY INFORMATION

This mixture is classified and labelled under European Regulation (EC) No 1272/2008 The CLP Regulations. Classification under Chemicals (Hazard Information & Packaging for supply) Regulations – CHIP 4 (2009) is also provided.

This product is approved, in the UK, under the Control of Pesticides Regulations (COPR) 1986 for use as directed: HSE 9718.

STATUTORY CONDITIONS OF APPROVAL RELATING TO USE.

FOR USE ONLY AS AN INSECTICIDE.

FOR USE ONLY BY PROFESSIONAL OPERATORS.

WATER BASED READY-FOR-USE PRODUCT.

Spray Carpets: Apply 1 litre of product per 14-16 square metres of surface.

Spray Fabrics: Apply 1 litre of product over 28-30 meters of fabric.

Roller: Apply 0.5 litre of product per square metre of fabric.

The COSHH (Control of Substances Hazardous to Health) Regulations 2002 (as amended) apply to the use of this product at work. Avoid excessive contamination of coveralls. DO NOT CONTAMINATE FOODSTUFFS,

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EATING UTENSILS OR FOOD CONTACT SURFACES. This material and its container must be disposed of in a safe way. Do not empty into drains. REMOVE OR COVER ALL FISH TANKS AND BOWLS before application. UNPROTECTED PERSONS AND ANIMALS SHOULD BE KEPT AWAY FROM TREATED AREAS UNTIL SURFACES ARE DRY. HAZARDOUS TO BEES. DO NOT USE ON BEEHIVES OR BEEKEEPING EQUIPMENT. DO NOT APPLY TO CLOTHING OR HUMAN BEDDING. FOR INDOOR USE ONLY.

Users must comply in full with all their legal responsibilities under the Control of Pesticides Regulations 1986 (as amended), including complying with all Conditions of Approval

READ ALL PRECAUTIONS BEFORE USE

15.2 CHEMICAL SAFETY ASSESSMENT

REACH Information: A Chemical Safety Assessment has been carried out for one or more substances present in the material.

SECTION 16 OTHER INFORMATION

List of abbreviations and acronyms:

ADN	European provisions concerning the international carriage of dangerous goods by inland waterways
ADNR	European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
ASTM	American Society for Testing and Material
bw	body weight
CAS	Chemical Abstracts Service
CHIP	Chemical (Hazard Information and Packaging) Regulations
CLP	Classification Packaging and Labelling
CMR	Carcinogenic, Mutagenic or toxic to Reproduction
EC	European Commission
EC	European Communities
EEC	European Economic Community
EU	European Union
g	grams
HSE	Health and Safety Executive
IATA	International Air Transport Association
IBC	International bulk container
ID	Identification
IMDG	International Maritime Dangerous Goods Code
Inh	inhalation
ISO	International Organization for Standardization
kg	kilogram
Kow	Octanol/Water Partition Coefficient
LC	Lethal Concentration
LD	Lethal Dose

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LEL	Lower Explosive Limit/Lower Explosion Limit
m3	cubic metre
mg	milligram
ml	millilitre
mm	millimetre
N.O.S.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observed Effect Loading Rate
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic chemicals
ppm	parts per million
QSAR	Quantitative Structure-Activity Relationship
REACH	Registration Evaluation and Authorisation of Chemicals
RID	Reglements Internationales Relatif au Transport des Marchandises Dangereuses par Chemin de Fer
STOT	Specific target organ toxicity
Tox	Toxicity
UEL	Upper explosive limit
UN	United Nations
VOC	Volatile Organic Compound
vPvB	Very Persistent and Very Bioaccumulative substances

List of relevant Hazard and Precautionary Phrases

H-statements

H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

P-statements

P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/.../ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378	In case of fire: Use ... for extinction.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.

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P501 Dispose of contents/container to ...

Risk Phrases

R10 Flammable

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

R53 May cause long-term adverse effects in the aquatic environment

Safety Phrases

S61 Avoid release to the environment. Refer to special instructions/safety data sheet

References

ECHA European Chemicals Agency, <http://echa.europa.eu/>

HSE Health and Safety Executive, <http://www.hse.gov.uk/>

WHO WHO SPECIFICATIONS AND EVALUATIONS FOR PUBLIC HEALTH PESTICIDES PERMETHRIN (40:60 cis:trans isomer ratio)

IPCS Pesticide residues in food – 1999 Sponsored jointly by FAO and WHO with the support of the International Programme on Chemical Safety (IPCS)

TOXNET Databases on toxicology, hazardous chemicals, environmental health, and toxic releases, <http://toxnet.nlm.nih.gov/>

Revisions

Modernised for CLP & REACH

Changes throughout in all sections 1-16.

Legal disclaimer

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