

Safety Data Sheet

NOTE: Access to a copy of this Safety Data Sheet (SDS) via our Website does not constitute the issue of a controlled Copy under EU legislation. To be issued with such a copy please contact Rentokil Initial using the details below. In order to confirm the latest version of the SDS for this product visit http://www.rentokil-initial.com/sds/

Issue: 01 16:03:2011

| Product identifier | INCCCTADANTIONED | HSE 6216 | |
|--|--|----------------------|--|
| Product identifier | INSECTABAN LIQUID | PCS 96199 | |
| Relevant identified uses of the mixture and uses advised against | A colourless liquid with a solvent odour for professional use Part of the Deadline Range. | e as an insecticide. | |
| Details of the supplier of the safety data sheet | Rentokil Initial Supplies, Liverpool, L33 7SR, UK. Product advice line: +44 (0)151 548 5050 Emergency line: +44 (0)1342 833 022 E-mail: sds@rentokil.com | | |
| National contact | As above. | | |
| Emergency telephone number | 0844 892 011 (for use by medical professionals only). | | |

| 2 | HAZARDS IDENTIFICATION | | | |
|----------------|---|--------|--|--|
| Classifica | Classification according to Regulation (EC) No 1272/2008 (See section 16) | | | |
| See section | See section 16 / Not applicable. | | | |
| Classifica | Classification according to Directive 1999/45/EC (See section 16) | | | |
| X _n | Harmful | R65 | | |
| X_{i} | Irritant | R38 | | |
| N | Dangerous for the Environment | R50/53 | | |
| | Flammable | R10 | | |

Label elements





Harmful.

Dangerous for the Environment.

| | Dangerous for the Environment. | | |
|--------------------------------|--|--|--|
| | R10: Flammable. | | |
| | R38: Irritating to skin. | | |
| Risk phrase(s) (R), in full. | R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic | | |
| | environment. | | |
| | R65: May cause lung damage is swallowed. | | |
| | S23: Do not breathe fog or spray mist. | | |
| | S37: Wear suitable gloves. | | |
| Safety phrase(s) (S), in full. | S51: Use only in well ventilated areas. | | |
| | S60: This material and its container must be disposed of as hazardous waste. | | |
| | S62: If swallowed, do not induce vomiting, seek medical advice and show this container or label. | | |
| C + : 0220/ / D + I : | | | |

Contains 0.23 % w/w Permethrin.

Contains Permethrin. May produce an allergic reaction.

To avoid risks to man and the environment, comply with the instructions for use.

Safety Data Sheet available to professional user on request.

Other hazards

Avoid contact with strong oxidising agents and extremes of temperature. E.g. below 0°C and above 40°C.

Inhalation may lead to throat irritation, nausea and vomiting. Ingestion may lead to nausea and vomiting. Inhalation of vapour whilst vomiting or swallowing may cause lung damage. Irritating to skin.

No other significant adverse effects expected under normal conditions of handling and use.

| COMPOSITION/INFORMATION ON INGREDIENTS (See section 16) | | | | | | | |
|---|---|------------|-----------|--------------|--|--|--|
| % w/w | Common*/ Chemical Name (IUPAC) | CAS No. | EC No. | Index No. | Regulation (EC) No 1907/2006 (REACH) Registration No. | Directive 67/548/EEC classification | Regulation (EC) No 1272/2008 classification |
| 0.23 | Permethrin*/3- phenoxybenzyl (1RS, 3RS, 1RS, 3SR)-3-(2,2- dichlorovinyl)-2,2- dimethylcyclopropa necarboxylate | 52645-53-1 | 258-067-9 | 613-058-00-2 | - | X _n : R20/22 X _i : R43 N: R50/53 | Not available. |
| >25 ≤50 | Isoalkanes C9-12 | 90622-57-4 | 292-459-4 | - | - | X _n : R65, R66 R53 | Not available. |
| >25 ≤50 | Isoalkanes C11-15 | 90622-58-5 | 292-460-6 | - | - | X _n : R65, R66 | Not available. |

| 4 FIRST-AID M | 4 FIRST-AID MEASURES | | | | |
|----------------------------------|--|--|--|--|--|
| Inhalation | Remove patient to fresh air, keep warm and at rest. Apply supportive measures if necessary and seek medical attention. | | | | |
| Eye Contact | Rinse affected eye with clean running water, or eyewash solution, for at least 15 minutes holding eyelids well apart. Rinse entire surface and do not allow run-off to contaminate unaffected eye. Seek medical attention. | | | | |
| Skin Contact | Remove and wash contaminated clothing immediately. Wash affected area thoroughly with soap and water. If the patient feels unwell seek medical advice. | | | | |
| Ingestion (Swallowing) | Do NOT induce vomiting. If unconscious place in the recovery position and apply supportive measures if necessary. If conscious give patient up to ½ litre or 1 pint of water to drink. Seek medical attention. | | | | |
| Emergency Equipment Suggested | Appropriate first-aid equipment should be provided. | | | | |
| Note To Doctor | Further information on all Rentokil Initial formulations is lodged with the local National Poisons Information Service. | | | | |
| Antidote | No specific antidote known. Treatment is symptomatic. | | | | |

| 5 FIRE FIGHTING MEASURES | | | |
|--|---|--|--|
| Suitable extinguishing media | Use carbon dioxide, foam or dry powder extinguishers. | | |
| Unsuitable extinguishing media | Do NOT use a water jet. | | |
| Special hazards arising from the mixture | May give off toxic fumes if heated to decomposition. | | |
| Advice for fire-fighters | Wear self-contained breathing apparatus and suitable personal protective equipment conforming to EN469. | | |

| 6 ACCIDENTAL | 6 ACCIDENTAL RELEASE MEASURES | | | | |
|---|---|--|--|--|--|
| Personal precautions, protective equipment and emergency procedures | Wear suitable personal protective equipment. | | | | |
| Environmental Precautions | This product is classified as dangerous for the environment. Keep away from drains, surface and ground water, and soil. | | | | |
| Methods and material for containment and cleaning up | Absorb spill with an inert material such as sand, earth or sawdust. Transfer to a suitable container for subsequent disposal. | | | | |
| Reference to other sections | Please also see sections 8 and 13 for further information. | | | | |
| Additional information | Clear spills immediately. | | | | |

 INSECTABAN LIQUID

 SDS No. 1065-GB-IE
 Issue: 01
 16: 03: 2011
 Page 2 of 6

| 7 HANDLING A | 7 HANDLING AND STORAGE | | |
|--|---|--|--|
| Precautions for safe handling | No specific handling requirements. | | |
| Conditions for safe storage, including any incompatibilities | Keep away from open flames. Store in original container in a cool, dry, ventilated place out of the reach of children and away from food, drink and animal feeding stuffs. | | |
| Specific end use(s) | Insecticide. | | |

| 8 EXI | 8 EXPOSURE CONTROLS/PERSONAL PROTECTION | | | | |
|---|---|---|--|--|--|
| Exposure standard - Directive 98/24/EC (1st IOELV Directive) | Workplace Exposure Limit (WEL) long-term exposure (8 hour Time Weighted Average). Workplace Exposure Limit (WEL) short-term exposure (15 minute reference period). Substance name used in Directive EC/98/24 (1st IOELV Directive). | For Isoalkane solvent is1200 mg/m³ using the Reciprocal Calculation method. Not applicable. Not applicable. | | | |
| Appropriate engineering controls | | Where exposure may occur, engineering controls, rather than the provision of Personal Protective Equipment (PPE) should be employed. On completion of a risk assessment, the following PPE may be required: | | | |
| Eye/face protection | | Suitable eye protection such as goggles. | | | |
| Hand protection | | Suitable hand protection such as gloves. | | | |
| Skin/body protection | | Suitable skin protection such as coveralls. | | | |
| Respiratory protection | | Do not breathe spray or mist. Otherwise wear suitable respiratory protection such as Self-contained breathing apparatus (SCBA). | | | |
| Environmen Exposure Co | | Use only in accordance with instructions given. | | | |

| 9 PHYSICAL ANI | 9 PHYSICAL AND CHEMICAL PROPERTIES | | | | |
|--|--|--|---|--|--|
| Appearance and odour/odour threshold | Colourless liquid with a characteristic odour. | | | | |
| pH | Not applicable. | Solubility in water | Insoluble. | | |
| Density | Not determined. | Solubility in other solvents | Soluble. | | |
| Specific gravity | 0.759 g/mL at 20°C. | Explosive properties | Not determined. | | |
| Flash point | 55-65°C (closed cup). | Combustibility | Combustible. | | |
| Flammability | Flammable. | Oxidising properties | No known oxidising properties. | | |
| Boiling point/range | Isoalkane solvent: 175-213 °C. | Evaporation rate | Isoalkane solvent: 0.040 (n-butyl acetate = 1). | | |
| Vapour density | Isoalkane solvent: >1. | Partition coefficient: n-octanol/water | Not applicable. | | |
| Vapour pressure | Isoalkane solvent: 0.05 kPa at 20°C. | Decomposition temperature | Not determined. | | |
| Melting point/freezing point | Not determined. | Auto-ignition temperature | Not determined. | | |
| Upper/lower flammability or explosive limits | Isoalkane solvent: Lower explosive limit in air: 0.6 % v/v. Upper explosive limit in air: 7.0 % v/v. | Other safety information | None known. | | |
| Viscosity | Isoalkane solvent: 1.60 mm²/s at 25°C. | | | | |

 INSECTABAN LIQUID

 SDS No. 1065-GB-IE
 Issue: 01
 16: 03: 2011
 Page 3 of 6

| 10 STABILITY AND | 0 STABILITY AND REACTIVITY | | | |
|---|---|--|--|--|
| Reactivity This product is stable under normal conditions of handling and use. | | | | |
| Chemical stability | This product is stable under normal conditions of handling and use. | | | |
| Possibility of hazardous reactions | None expected under normal conditions of handling and use. | | | |
| Conditions to avoid | Avoid heat, sparks and open flames. Avoid extremes of temperature e.g. below 0°C and above 40°C. | | | |
| Incompatible materials | Avoid contact with strong oxidising agents. | | | |
| Hazardous decomposition products | May give off toxic fumes if heated to decomposition. | | | |

| 11 TOXIC | 11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2) | | | | |
|----------------------|---|---|--|--|--|
| Acute Toxicity | Oral | For Product: LD ₅₀ (rat) > 2000 mg/kg. | | | |
| | Inhalation | For Product: LC ₅₀ (rat) (4h) > 20.25 mg/L. | | | |
| | Dermal | For Product: LD₅₀ (rat) > 2000 mg/kg. | | | |
| Corrosivity/ | Skin | Irritating to skin. | | | |
| Irritation | Eyes | Not irritating to eyes. | | | |
| | Respiratory tract | May be irritating to respiratory tract. | | | |
| Sensitisation | Skin | Test data shows that this product is not sensitising to skin. However, this product contains less than 1% skin sensitisers in the form of Permethrin. | | | |
| | Respiratory | Contains no known respiratory sensitisers | | | |
| Repeat-Dose Toxicity | | Product does not contain any components known to have any effects relating to repeated-dose toxicity. | | | |
| Mutagenicity | | Product does not contain any components known to have a mutagenic effect. | | | |
| Carcinogenicity | | Product does not contain any components known to have a carcinogenic effect. | | | |
| Reproductive | Fertility | Product does not contain any components known to have effects on fertility. | | | |
| Toxicity | Development | Product does not contain any components known to be toxic to the reproductive system. | | | |
| Other Information | | None known. | | | |

| 12 ECOLOGICAL INFO | ORMATION | | |
|------------------------------------|--|---------------------------|--|
| General Information | This product is classified as very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. However, when used in accordance with instructions given, controlled release of this product is not expected to cause environmental contamination. | | |
| Ecotoxicity Data | For Permethrin: Fish Daph Algae Other Toxic | (Scenedesmus subspicatus) | LC ₅₀ (96 h) 0.0089 mg/L LC ₅₀ (96 h) 0.145 mg/L EC ₅₀ (24 h) 0.020 mg/L EC ₅₀ (72 h) 0.022 mg/L LC ₅₀ >1200 mg/L |
| Persistence and Degradability | Permethrin: DT ₅₀ > 1 year at pH 4, 25°C. Isoalkane solvent is expected to be readily biodegradable and is expected to degrade rapidly in air. | | |
| Bioaccumulative Potential | No data available. | | |
| Mobility | Permethrin is strongly absorbed to soil particles with no risk of leaching. | | |
| Results of PBT and vPvB assessment | No data available. | | |
| Other Adverse Effects | Isoalkane solvent is classified as a Volatile Organic Compound according to Directive 99/13/EC. | | |

| 13 DISPOSAL CONSIDERATIONS | | | |
|--|---|--------------------------|--|
| Waste treatment methods | All pesticide waste should be disposed of using EWC code EWC: 20 01 19. If plastic or metal container is empty and triple rinsed, it can be disposed of as non-hazardous controlled waste. | | |
| Product/packaging disposal | This product is dangerous for the environment. Do not discharge to sewers, drains or watercourses. This product must be disposed of as hazardous waste. The empty container may be disposed of as controlled waste in accordance with the appropriate regulations. | | |
| Classification (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC)) | EWC: 20 01 19 <u>Hazard Code</u> : H3B – Flammable H5 – Harmful H14 - Ecotoxic <u>Substances making the waste hazardous</u> | Concentrations (%): | |
| Note for Disposal | Permethrin Isoalkanes C9-12 Isoalkanes C11-15 The best means of disposal of any product is through proper use | 0.23 >25≤50 >25≤50 | |
| Troce for Disposur | be in accordance with Local, State or National Requirements. | | |

| UN No. | UN1993 | | | | | RIS Code |
|--------------------------------|--|---|-------------------|---------------|------------|----------|
| Transport Category | 3 | | UK Hazchem EAC | •3Y | | PSD88 |
| | | | | | | 2 x 5 L |
| ADR 2011 | Class | 3 | ADR HIN | 30 | | Labels |
| (International Road) | | | | | | |
| Proper Shipping Name | FLAMMABLE LIQUID N.O.S (Contains Isoundecanes and Isodecanes). | | | | | |
| Limited Quantity Exemptions | Maximum quantity per inner receptacle is 5 litres. Maximum quantity per outer package is 30kg. Combination packs only. | | | | | |
| Special provisions | Not required. Packing Group III | | | | | |
| IMDG 2010 | Class | 3 | IMDG EMS | F-E, <u>S</u> | <u>5-E</u> | - |
| (Sea) | | | | | | |
| Proper Shipping Name | FLAMMABLE LIQUID N.O.S (Contains Isoundecanes and Isodecanes). | | | | | |
| Limited Quantity Exemptions | Maximum quantity per inner receptacle is 5 litres. Maximum quantity per outer package is 30kg. Combination packs only. | | | | | |
| Special provisions | Not required. | | Packing Group III | | | |
| Note for Transport | Local, State or National requirements may apply to the carriage of this product. | | | | | |

| 15 REGULATORY INFORMATION | | | | |
|---|--|--|--|--|
| Authorisations and/or restrictions on use | Information to be made available according to ECHA review programme. | | | |
| Other EU regulations | This safety data sheet was prepared in accordance with EC Directive 1907/2006. Labelling is in accordance with EC Directive 1999/45. Additional labelling requirements may be necessary in accordance with other National legislation. The registration of this product may be necessary before use and any additional local requirements must be observed at all times. Other National measures or guidance should be followed where appropriate. | | | |
| Chemical safety assessment | Information to be made available according to ECHA review programme. | | | |

 INSECTABAN LIQUID

 SDS No. 1065-GB-IE
 Issue: 01
 16: 03: 2011
 Page 5 of 6

| 16 01 | THER INFO | RMATION | | | | |
|---------------------------------|-------------------------------------|--|--|--|--|--|
| Revisions | | Not applicable. | | | | |
| Abbreviations and acronyms | | Typical standard abbreviations and acronyms used in Rentokil Initial Safety Data Sheets are as follows: ADR 2011 International Carriage of Dangerous Goods by Road (ADR) | | | | |
| | ADR HIN | ADR Hazard Identification Number (HIN) | | | | |
| | | Annex I DNEL or PNEC | Derived No Effect Level / Predicted No Effect Concentration | | | |
| | | CAS No | Chemicals Abstract Service Registry Number | | | |
| | | COSHH assessments. | Control of substances hazardous to health | | | |
| | | ECHA | European Chemicals Agency | | | |
| | | EC No | European Commission number | | | |
| | | EN469 | European standard for Personal Protective Equipment used for fire fighting. | | | |
| | | EN standards for PPE EWC | European Standards for Personal Protective Equipment European Waste Catalogue Code | | | |
| | | IMDG 2010 | International Maritime Dangerous Goods (IMDG) Code | | | |
| | | IUPAC | International Union of Pure and Applied Chemistry | | | |
| | | LD ₅₀ | Median lethal dose | | | |
| | | LC ₅₀ | Lethal concentration 50 | | | |
| | | REACH | Registration, Evaluation, Authorisation and restriction of Chemicals | | | |
| | | RIS Code | Internal manufacturing code number | | | |
| | | WEL | Workplace Exposure Limit | | | |
| | | UK Hazchem EAC | UK Hazchem Emergency Action Code | | | |
| | | Typical Directives and Regulations referred to Rentokil Initial Safety Data Sheets are as follows: | | | | |
| | | Commission Decision 95/320/EC | Scientific Committee for Occupational Exposure Limits to Chemical Agents | | | |
| | | Commission Decision 2000/532/EC | List of wastes | | | |
| | Commission Decision 2001/118/EC | Amendment to 200/532/EC with regards to List of wastes | | | | |
| | Directive 67/548/EEC | Dangerous Substances Directive | | | | |
| | Directive 89/686/EEC | The Personal Protective Equipment (PPE) Directive | | | | |
| | Directive 91/689/EC | Directive on Hazardous waste | | | | |
| | | Directive 98/24/EC (1st IOELV Directive) | Chemical Agents Directive 98/24/EC Protection of the Health and Safety of Workers from the Risks from Chemical Agents. IOELV | | | |
| | | Directive) | Directive: Indicative Occupational Exposure Limit Values. | | | |
| | | Directive 1907/2006. | REACH (Registration, Evaluation, Authorisation and restriction of | | | |
| | | Directive 1907/2000. | Chemicals | | | |
| | | Directive 1999/45/EC | Dangerous Preparations Directive | | | |
| | | Directive 2004/37/EC | Carcinogens and Mutagens Directive | | | |
| | | Directive (76/768/EC) (as amended) | The Cosmetics Directive | | | |
| | | Regulation (EC) No. 648/2004 | Detergents Regulation | | | |
| | | Regulation (EC) No 1272/2008 | Classification, Labelling and Packaging | | | |
| Key literatureferences for data | are and sources | For details of the data and information sources used, please contact Rentokil Initial using the details in Section 1. | | | | |
| Classification | on and used | Not currently classified to Regulation | (EC) No. 1272/2008 until 31/05/2015. | | | |
| classification | on procedure | , | • | | | |
| | s labelled to | | | | | |
| Directive 19 | 999/45/EC to Regulation | | | | | |
| (EC) No 127 | | | | | | |
| Risk phrase | e text | R20/22: Harmful by inhalation and if swallowed. | | | | |
| | 3 - These refer | R43: May cause sensitisation by skin contact. | | | | |
| | ients only. See the product risk | 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. | | | | |
| phrases) | the product risk | R65: Harmful: may cause lung damage if swallowed. | | | | |
| Hazard stat | tement text | R66: Repeated exposure may cause skin dryness or cracking. Hazard statements are a requirement of Regulation (EC) No. 1272/2008 and will be listed when available. | | | | |
| | 3 - These refer | | | | | |
| | ients only. See | | | | | |
| section 2 for to phrases) | the product risk | | | | | |
| Training ad | lvice | Use biocides safely. Always read the I | abel and product information before use. Ensure you have received | | | |
| iy au | | adequate training and or instructions | | | | |
| Further info | ormation | | A UN approved, 5 litre plastic container with a screw top lid. Supplied in packs of two. | | | |

INSECTABAN LIQUID

Before using any product, ensure that you read and understand its label.

The information contained in this safety data sheet is, to the best of our knowledge and belief, accurate and reliable at the time of publication. The information relates only to the specific material designated in this safety data sheet and may not be valid for such material if it is used in combination with any other material(s) or any other use than that specified herein. Rentokil Initial UK Ltd is not liable for the use of this product for any other purpose than that described in this safety data sheet. This does not affect your statutory rights. It is the user's responsibility to satisfy him/herself as to the suitability in completeness of such information for his/her own particular use.