

# Safety Data Sheet

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Issue : 1

05 : 03 : 2014

## SECTION 1 Identification of the substance/mixture and of the company/undertaking.

<b>1.1 Product identifier</b>	Deadline Insectaban Residual Insect Emulsion	HSE 9656
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	An off white liquid with a slight odour. Insecticide for professional use against crawling insects.	
<b>1.3 Details of the supplier of the safety data sheet</b>	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	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	
<b>1.4 Emergency telephone number</b>	0844 892 011 (for use by medical professionals only).	

## SECTION 2 Hazards Identification

### 2.1 Classification of the substance or mixture


Classification according to Regulation (EC) 1272/2008.

Not applicable. See section 16.

Classification according to Directive 1999/45/EC (See section 16)

-	-	R66
N	Dangerous for the environment.	R50/53

### 2.2 Label elements

	- Dangerous for the environment.
Risk phrase(s) (R), in full / Hazard statement(s) (H), in full.	R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R66: Repeated exposure may cause skin dryness or cracking.

Safety phrase(s) (S), in full / Precautionary Statement(s) (P), in full.

S23: Do not breathe fog or spray mist.  
 S24/25: Avoid contact with skin and eyes.  
 S35: This material and its container must be disposed of in a safe way.  
 S36: Wear suitable protective clothing.  
 S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
 S61: Avoid release to the environment. Refer to special instructions/safety data sheets.

### 2.3 Other hazards

When undiluted and not properly handled, can be irritating to skin and eyes and upon excessive inhalation.

## SECTION 3 Composition/Information on Ingredients (See section 16)

### 3.2 Mixtures

% w/w	Common*/ Chemical Name (IUPAC)	CAS No.	EC No.	Index No.	REACH Registration No.	Directive 67/548/EEC classification	Regulation (EC) No 1272/2008 classification
10.00	d-Phenothrin	188023-86-1	247-404-5	-	n/a	N: R50/53	Aquatic Acute 1 : H400 Aquatic Chronic 1 : H410
>1.0 ≤10.0%	Monopropylene glycol* / propane-1,2-diol	57-55-6	200-338-0	-	01-2119456809-23-xxxx	Not classified.	Not classified.
≤1.0	1,3,5 trimethylbenzene	108-67-8	203-604-4	601-025-00-5	-	-: R10 Xi: R37 N: R51/53	Flam. Liq. 3 : H226 STOT SE 3 : H335 Aquatic Chronic 2 : H411
≤0.1	Ethylbenzene	100-41-4	202-849-4	601-023-00-4	02-2119752523-40-0000	F: R11 Xn: R20	Flam. Liq. 2 : H225 Acute Tox. 4 : H332
≤0.1	Xylene	1330-20-7	215-535-7	601-022-00-9	-	-: R10 Xn: R20/21 Xi: R38	Flam. Liq. 3 : H226 Acute Tox. 4 : H312 H332 Skin Irrit. 2 : H315 Eye Irrit. 2 : H319
≤0.1	Toluene	108-88-3	203-625-9	601-021-00-3	02-2119752507-34-0000	F: R11 Xn: R48/20 R65 Xi: R38 -: R63 R67	Flam. Liq. 2 : H225 Acute Tox. 4 : H302 Skin Irrit. 2 : H315 Eye Irrit. 2 : H319 Repr. 2 : H361d STOT SE 3 : H336 STOT RE 2 : H373 Asp. Tox. 1 : H304
≤0.1	Benzene	71-43-2	200-753-7	601-020-00-8	-	F: R11 T: R48/23/24/ 25 Xi: R36/38 -: R45 R46 Xn: R65	Flam. Liq. 2 : H225 Skin Irrit. 2 : H315 Eye Irrit. 2 : H319 Muta. 1B : H340 Carc. 1A : H350 STOT RE 1 : H372 Asp. Tox. 1 : H304
≤0.1	Cumene	98-82-8	202-704-5	601-024-00-X	-	-: R10 Xn: R65 Xi: R37 N: R51/53	Flam. Liq. 3 : H226 STOT SE 3 : H335 Asp. Tox. 1 : H304 Aquatic Chronic 2 : H411
>1.0 ≤10.0%	Hydrocarbons, C9, aromatics	-	918-668-5	-	01-2119455851-35-xxxx	-: R10 R66 R67 Xi: R37 Xn: R65 -: R10 R66 R67 N: R51/53	Flam. Liq. 3 : H226 STOT SE 3 : H335 H336 Asp. Tox. 1 : H304 Aquatic Chronic 2 : H411

## SECTION 4 First-Aid Measures

### 4.1 Description of first aid measure

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.

### 4.2 Most important symptoms and effects both acute and delayed (See section 2.3)

Emergency Equipment Suggested	Appropriate first-aid equipment should be provided.
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### 4.3 Indication of any immediate medical attention and special treatment needed

Note To Doctor	Further information on all Rentokil Initial formulations is lodged with the local National Poisons Information Service.
Antidote	No known antidote.

## SECTION 5 Fire Fighting Measures

### 5.1 Extinguishing media

Suitable extinguishing media	Use carbon dioxide, foam or dry powder extinguishers.
Unsuitable extinguishing media	Do NOT use a water jet.
5.2 Special hazards arising from the substance or mixture	Acrid smoke/fumes of carbonyl compounds and acetic acid. ammonia, nitrogen oxides and carbon oxides, maybe evolved.
5.3 Advice for fire fighters	Wear self contained breathing apparatus and suitable personal protective equipment conforming to EN469.

## SECTION 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures	Wear suitable personal protective equipment.
6.2 Environmental precautions	This product is classified as dangerous for the environment. Keep away from drains, surface and ground water and soil.
6.3 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.
6.4 Reference to other sections	Please also see sections 8 and 13 for further information.
Additional information	Clear spills immediately.

## SECTION 7 Handling and Storage

7.1 Precautions for safe handling	Ensure there is sufficient ventilation in the area.
7.2 Conditions for safe storage, including any incompatibilities	Store in the original container in a cool, dry and well ventilated place out of reach of children and away from food, drink and animal feeding stuffs. Keep away from direct sunlight.
7.3 Specific end use(s)	Insecticide.

## SECTION 8 Exposure Controls/Personal Protection

### 8.1 Control Parameters

Exposure standard - Directive 98/24/EC (1st IOELV Directive)	<b>Workplace Exposure Limit (WEL) long-term exposure (8 hour Time Weighted Average)</b>	For: Propane-1,2-diol (total vapour and particulates) is 474 mg/m <sup>3</sup> , 150ppm. For 1, 3, 5-trimethylbenzene (8hr TWA): 25ppm, 125mg/m <sup>3</sup> For ethylbenzene (8hr TWA): 100ppm, 441mg/m <sup>3</sup> For xylene (8hr TWA): 50ppm, 220mg/m <sup>3</sup> For toluene (8hr TWA): 50ppm, 191mg/m <sup>3</sup> For benzene (8hr TWA): 1ppm, 3.25mg/m <sup>3</sup> For cumene (8hr TWA): 25ppm, 125mg/m <sup>3</sup>
	<b>Workplace Exposure Limit (WEL) short-term exposure (15 minute reference period)</b>	For ethylbenzene (STEL 15min): 125ppm, 552mg/m <sup>3</sup> For xylene (STEL 15min): 100ppm, 441mg/m <sup>3</sup> For toluene (STEL 15min): 100ppm, 384mg/m <sup>3</sup> For cumene (STEL 15min): 50ppm, 250mg/m <sup>3</sup>
	<b>Substance name used in Directive EC/98/24 (1st IOELV Directive)</b>	Not applicable.

### 8.2 Exposure Controls

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:
Individual Protection Measures	
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	None necessary under normal working conditions.
Environmental Exposure Controls	Use only in accordance with instructions given.

## SECTION 9 Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance, odour and physical state	An off-white liquid with a slight odour.		
pH	8.4 at 20°C.	Solubility in water	Miscible
Density	Not determined.	Solubility in other solvents	Not determined.
Relative density	Approx. 1 at 25°C	Explosive properties	None.
Flash point	69°C	Combustibility	Combustible.
Flammability	Non-flammable.	Oxidising properties	None.
Initial boiling Point and boiling range	Starts at ca. 180°C.	Evaporation rate	Not determined.
Vapour Density	Not determined.	Partition coefficient: n-octanol/water	Not applicable.
Vapour pressure	Not determined.	Decomposition temperature	Not determined.
Melting point / Freezing point	Not applicable.	Auto-ignition temperature	Not determined.

### 9.2 Other Information

Upper/lower flammability or explosive limits	Not determined.	Other safety information	Not applicable.
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Viscosity	Not determined.		
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## SECTION 10 Stability and Reactivity

<b>10.1 Reactivity</b>	None expected under normal conditions of handling and use.
<b>10.2 Chemical stability</b>	This product is stable under normal conditions of handling and use.
<b>10.3 Possibility of hazardous reactions</b>	None expected under normal conditions of handling and use.
<b>10.4 Conditions to avoid</b>	Avoid extremes of temperature, e.g. below 0°C and above 40°C.
<b>10.5 Incompatible materials</b>	Avoid contact with oxidising agents.
<b>10.6 Hazardous decomposition products</b>	Acrid smoke/fumes of carbonyl compounds and Acetic acid. Ammonia, Nitrogen oxides and Carbon Oxides maybe evolved.

## SECTION 11 Toxicological Information (see also box 2)

<b>11.1 Information on toxicological effects</b>		
Acute Toxicity	Oral	Ingestion may cause nausea, vomiting and irritation of the respiratory and digestive systems. For d-phenothrin : LD50 (rat) 5000mg/kg.
	Inhalation	Inhalation may lead to irritation of the respiratory system. Inhalation of high concentrations may cause drowsiness and dizziness. For d-phenothrin LC50 (rat) (4h): >2.1 mg/L
	Dermal	For d-phenothrin : LD50 (rat) : >2000 mg/kg.
Corrosivity/ Irritation	Skin	May be irritating to skin, especially on prolonged contact
	Eyes	May be irritating to eyes, especially on prolonged contact
	Respiratory tract	May be irritating to respiratory tract.
Sensitisation	Skin	Contains no known skin sensitisers.
	Respiratory	Contains no known respiratory sensitisers.
Repeated 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 Toxicity	Fertility	Product does not contain any components known to have effects on fertility.
	Developmental	Product does not contain any components known to be toxic to the reproductive system.
Other data	No specific antidote known.	

## SECTION 12 Ecological Information

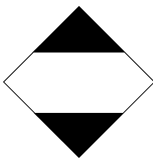
<b>12.1 Toxicity</b>	
General information	This product is classified as very toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. However when used in accordance with instructions given, controlled release of this product is not expected to cause environmental contamination.
Ecotoxicity data	For d-phenothrin : LC50 (Rainbow trout <i>Oncorhynchus mykiss</i> ) (96hr): 2.7 µg /L, EC50 <i>Daphnia magna</i> ) (48h) :4.3 µg /L
<b>12.2 Persistence and degradability</b>	d-Phenothrin is not readily biodegradable.
<b>12.3 Bioaccumulative potential</b>	The bioaccumulative potential of this product and its constituents has not been evaluated.
<b>12.4 Mobility in soil</b>	d-Phenothrin is readily absorbed into the soil.

<b>12.5 Results of PBT and vPvB assessment</b>	No data available.
<b>12.6 Other Adverse Effects</b>	Discharge to the environment should be avoided.

## SECTION 13 Disposal Considerations

<b>13.1 Waste treatment methods</b>	Disposal of the container must be in accordance with Local, State or National Requirements.	
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))	Hazard Code: H14 - Ecotoxic.	
	Substances making the waste hazardous:	Concentrations (%):
	d-Phenothrin	10.00%
Note for Disposal	Disposal must be in accordance with Local, State or National Requirements.	

## SECTION 14 Transport Information (International unless otherwise indicated)

<b>ADR 2011 (International Road) / IMDG 2010 (Sea)</b>			
<b>14.1 UN number</b>	UN3082	<b>RIS Code</b>	500ml PSD98
<b>14.2 UN Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (contains d-phenothrin).		
<b>14.3 Transport hazard class(es)</b>	9		
ADR HIN	90		
UK Hazchem EAC	8Z		
IMDG EMS	F-A, S-F		
<b>14.4 Packing Group</b>	III	<b>Labels</b> 	
Transport Category	3		
<b>14.5 Environmental hazards</b>	Yes		
Marine pollutant	Yes		
Additional precautions	Not applicable.		
<b>14.6 Special precautions for user</b>	Not required.		
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.		
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 5 litres. Maximum quantity per outer package is 30 kg. Combination packs only.		
Note for Transport	Local, State or National requirements may apply to the carriage of this product.		

## SECTION 15 Regulatory Information

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
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.
<b>15.2 Chemical safety assessment</b>	Information to be made available according to ECHA review programme.

## SECTION 16 Other Information

Revisions	Not applicable.
Abbreviations and acronyms	<p>Typical standard abbreviations and acronyms used in Rentokil Initial Safety Data Sheets are as follows:</p> <p>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 - European Standards for Personal Protective Equipment  EWC - European Waste Catalogue Code  IMDG 2010 - International Maritime Dangerous Goods (IMDG) Code  IUPAC - International Union of Pure and Applied Chemistry  LD<sub>50</sub> - Median lethal dose  LC<sub>50</sub> - Lethal concentration  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</p> <p>Typical Directives and Regulations referred to Rentokil Initial Safety Data Sheets are as follows:</p> <p>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 2000/532/EC with regards to List of wastes  Directive 67/548/EEC - Dangerous Substances Directive  Directive 76/768/EC (as amended) - The Cosmetics 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: Indicative Occupational Exposure Limit Values  Regulation (EC) No 1907/2006 - REACH (Registration, Evaluation, Authorisation and restriction of Chemicals)  Regulation (EC) No 453/2010-amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)  Directive 1999/45/EC - Dangerous Preparations Directive  Directive 2004/37/EC - Carcinogens and Mutagens Directive  Regulation (EC) No. 648/2004 - Detergents Regulation  Regulation (EC) No 1272/2008 - Classification, Labelling and Packaging</p>

<b>Key literature references and sources for data</b>	For details of the data and information sources used, please contact Rentokil Initial using the details in Section 1.
<b>Classification and used classification procedure for mixtures labelled to Directive 1999/45/EC according to Regulation (EC) No 1272/2008</b>	Not currently classified to Regulation (EC) No. 1272/2008 until 31/05/2015.
<b>Risk phrase/Hazard statement text</b> (From section 3 - These refer to the ingredients only. See section 2 for the product risk phrases)	R10: Flammable R11: Highly flammable. R20: Harmful by inhalation. R20/21: Harmful by inhalation and in contact with skin. R36/37/38: Irritating to eyes, respiratory system and skin. R36/38: Irritating to eyes and skin. R37: Irritating to respiratory system. R38: Irritating to skin. R45: May cause cancer. R46: May cause heritable genetic damage. R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation. R48/23/24/25: Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R63: Possible risk of harm to the unborn child. R65: Harmful: may cause lung damage if swallowed. R66: Repeated exposure may cause skin dryness or cracking. R67: Vapours may cause drowsiness and dizziness. EUH 066: Repeated exposure may cause skin dryness or cracking. H226: Flammable liquid and vapour. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness. H304: May be fatal if swallowed and enters airways. H225: Highly flammable liquid and vapour. H332: Harmful if inhaled. H312: Harmful in contact with skin. H315: Causes skin irritation. H319: Causes serious eye irritation. H302: Harmful if swallowed. H340: May cause genetic defects. H350: May cause cancer. H361d: Suspected of damaging the unborn child. H372: Causes damage to organs through prolonged or repeated exposure H373: May cause damage to organs through prolonged or repeated exposure. H411: Toxic to aquatic life with long lasting effects.
<b>Training advice</b>	Always read the label and product information before use. Ensure you have received adequate training and or instructions before use.
<b>Further Information</b>	500ml Fluorinated HDPE twin neck bottle with built in dispenser and child resistant caps supplied in an outer cardboard box.

## DEADLINE INSECTABAN RESIDUAL INSECT EMULSION

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

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