

# INSECT KILLER FOGGERS

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 15/09/2015  
Version: 2.0

Revision date:

# Rentokil

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

### 1.1. Product identifier

Product name : INSECT KILLER FOGGERS  
Brand : RENTOKIL  
Product code : FI65 2 x 11g  
Type of product : Biocide  
Registration No : HSE 9600, PCS 97359  
Product form : Mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Intended for general public  
Use of the substance/mixture : Insecticidal foggers for amateur use to kill flies, fleas, moths and other insects in the home.  
Main use category : Consumer use  
Use of the substance/mixture : Insecticide

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

Rentokil Initial Supplies  
Liverpool  
L33 7SR  
UK

Product advice line: +44 (0)151 548 5050  
Email: sds@rentokil.com

### 1.4. Emergency telephone number

Emergency number : +44 (0)1342 833022

| Country               | Organisation/Company   | Address                                     | Emergency number  |
|-----------------------|--|---|---|
| IRELAND (REPUBLIC OF) | National Poisons Information Centre<br>Beaumont Hospital                     | PO Box 1297<br>Beaumont Road<br>Dublin<br>9 | +353 1 809 2166 (public,<br>8am - 10pm, 7/7)                          |
| UNITED KINGDOM        | National Poisons Information Service<br>(Birmingham Centre)<br>City Hospital | Dudley Road<br>Birmingham<br>B18 7QH        | 0844 892 0111 (UK only,<br>Monday to Friday, 08.00 to<br>18.00 hours) |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral) H302  
Acute Tox. 4 (Inhalation:dust,mist) H332  
Skin Sens. 1 H317  
Aquatic Acute 1 H400  
Aquatic Chronic 1 H410

Full text of H-statements: see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; R20/22  
R43  
N; R50/53

Full text of R-phrases: see section 16

# INSECT KILLER FOGGERS

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) :

Warning

Hazardous ingredients :

Permethrin, potassium chlorate

Hazard statements (CLP) :

H302+H332 - Harmful if swallowed or if inhaled  
H317 - May cause an allergic skin reaction  
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P101 - If medical advice is needed, have product container or label at hand  
P102 - Keep out of reach of children  
P261 - Avoid breathing gas  
P273 - Avoid release to the environment  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
P312 - Call a POISON CENTRE or doctor/physician if you feel unwell  
P501 - Dispose of contents/container to normal household waste. However if used in a place of work any product and empty container must be disposed of as controlled waste.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name               | Product identifier   | %       | Classification according to Directive 67/548/EEC |
|--------------------|--|---------|--|
| potassium chlorate | (CAS No) 3811-04-9<br>(EC no) 223-289-7<br>(EC index no) 017-004-00-3  | 10 - 50 | O; R9<br>Xn; R20/22<br>N; R51/53                 |
| Permethrin         | (CAS No) 52645-53-1<br>(EC no) 258-067-9<br>(EC index no) 613-058-00-2 | 13.25   | Xn; R20/22<br>R43<br>N; R50/53                   |

| Name       | Product identifier   | Specific concentration limits   |
|------------|--|---|
| Permethrin | (CAS No) 52645-53-1<br>(EC no) 258-067-9<br>(EC index no) 613-058-00-2 | (0.00025 =< C < 0.0025) R52/53<br>(0.0025 =< C < 0.025) N;R51/53<br>(C >= 0.025) N;R50/53 |

| Name               | Product identifier   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|--------------------|--|---------|--|
| potassium chlorate | (CAS No) 3811-04-9<br>(EC no) 223-289-7<br>(EC index no) 017-004-00-3  | 10 - 50 | Ox. Sol. 1, H271<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Inhalation:dust,mist), H332<br>Aquatic Chronic 2, H411                                    |
| Permethrin         | (CAS No) 52645-53-1<br>(EC no) 258-067-9<br>(EC index no) 613-058-00-2 | 13.25   | Acute Tox. 4 (Inhalation), H332<br>Acute Tox. 4 (Oral), H302<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400 (M=1000)<br>Aquatic Chronic 1, H410 (M=1000) |

Full text of R- and H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).  |
| First-aid measures after inhalation   | : Allow breathing of fresh air. Allow the victim to rest. If you feel unwell, seek medical advice.   |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. |

# INSECT KILLER FOGGERS

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : If you feel unwell, seek medical advice.
- Symptoms/injuries after inhalation : Harmful if inhaled. May cause an allergic skin reaction.
- Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : This product is flammable. May intensify fire; oxidiser. In case of fire the evolution of dangerous gases is possible. Contains potassium chlorate which is classified as an oxidising agent which will assist combustion in a fire situation.
- Explosion hazard : Product is not explosive.
- Reactivity in case of fire : release of highly flammable gases/vapours.
- Hazardous decomposition products in case of fire : Fume.

### 5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Use water spray or fog for cooling exposed containers.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

No additional information available

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing Gas.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Keep out of reach of children.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

Insecticide.

# INSECT KILLER FOGGERS

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

|                               |  |
|-------------------------------|--|
| Personal protective equipment | : Not required for normal conditions of use. Avoid all unnecessary exposure.                 |
| Hand protection               | : Wear protective gloves.  |
| Eye protection                | : Chemical goggles or safety glasses.  |
| Respiratory protection        | : Wear appropriate mask.   |
| Other information             | : Do not eat, drink or smoke when using this product. Do not eat, drink or smoke during use. |

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|  |   |
|--|---|
| Physical state                             | : Solid   |
| Appearance                                 | : Powder.   |
| Colour                                     | : White to off-white.   |
| Odour                                      | : characteristic.   |
| Odour threshold                            | : No data available   |
| pH   | : No data available   |
| Relative evaporation rate (butylacetate=1) | : No data available   |
| Melting point                              | : No data available   |
| Freezing point                             | : No data available   |
| Boiling point                              | : No data available   |
| Flash point                                | : No data available   |
| Auto-ignition temperature                  | : > 130 °C  |
| Decomposition temperature                  | : No data available   |
| Flammability (solid, gas)                  | : Flammable solid, Non flammable  |
| Vapour pressure                            | : No data available   |
| Relative vapour density at 20 °C           | : No data available   |
| Relative density                           | : No data available   |
| Solubility                                 | : No data available   |
| Log Pow                                    | : No data available   |
| Viscosity, kinematic                       | : No data available   |
| Viscosity, dynamic                         | : No data available   |
| Explosive properties                       | : Product is not explosive.   |
| Oxidising properties                       | : Contains potassium chlorate which is classified as an oxidising agent. This will assist combustion in a fire situation. |
| Explosive limits                           | : No data available   |

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

This product is stable under normal conditions of handling and use.

#### 10.2. Chemical stability

This product is stable under normal conditions of handling and use.

#### 10.3. Possibility of hazardous reactions

None expected under normal conditions of handling and use.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

# INSECT KILLER FOGGERS

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Inhalation:dust,mist: Harmful if inhaled.

| INSECT KILLER FOGGERS          |                          |
|--------------------------------|--------------------------|
| ATE CLP (oral)                 | 1503.759 mg/kg           |
| ATE CLP (dust,mist)            | 4.511 mg/l/4h            |
| Permethrin (52645-53-1)        |                          |
| LD50 dermal rat                | > 2000 mg/kg bodyweight  |
| ATE CLP (oral)                 | 500.000 mg/kg bodyweight |
| ATE CLP (dust,mist)            | 1.500 mg/l/4h            |
| potassium chlorate (3811-04-9) |                          |
| LD50 oral rat                  | 1870 mg/kg               |
| LD50 dermal rat                | > 2000 mg/kg             |
| ATE CLP (dust,mist)            | 1.500 mg/l/4h            |

Skin corrosion/irritation : May cause skin irritation / dermatitis  
Based on available data, the classification criteria are not met

Serious eye damage/irritation : May cause eye irritation  
Based on available data, the classification criteria are not met

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified  
Based on available data, the classification criteria are not met

Carcinogenicity : Not classified  
Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified  
Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified  
Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated exposure) : Not classified  
Based on available data, the classification criteria are not met

Aspiration hazard : Not classified  
Based on available data, the classification criteria are not met

Potential adverse human health effects and symptoms : Harmful if swallowed. Harmful if inhaled.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

| Permethrin (52645-53-1)        |                     |
|--------------------------------|---------------------|
| LC50 fish 1                    | 0.0089 mg/l 96 hrs  |
| EC50 Daphnia 1                 | 0.02 mg/l 24 hrs    |
| LC50 fish 2                    | 0.145 mg/l 96 hrs   |
| ErC50 (algae)                  | > 0.011 mg/l 72 hrs |
| potassium chlorate (3811-04-9) |                     |
| ErC50 (algae)                  | 2.8 mg/l 72 hrs     |

#### 12.2. Persistence and degradability

| INSECT KILLER FOGGERS         |  |
|-------------------------------|--|
| Persistence and degradability | Not readily biodegradable. May cause long-term adverse effects in the environment. |

#### 12.3. Bioaccumulative potential

| INSECT KILLER FOGGERS     |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

# INSECT KILLER FOGGERS

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 12.6. Other adverse effects

Additional information : Avoid release to the environment

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : This product is for amateur use and can be disposed of as normal household waste. However, if used in a place of work, any product and empty container must be disposed of as controlled waste.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No. (ADR) : 3077  
UN-No. (IATA) : 3077  
UN-No. (IMDG) : 3077  
UN-No. (ADN) : 3077

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
Proper Shipping Name (IATA) : Environmentally Hazardous Substance, Solid, N.O.S  
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
Proper Shipping Name (ADN) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
Transport document description (ADR) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS ; Permethrin(52645-53-1)), 9, III, (E)

### 14.3. Transport hazard class(es)

Class (ADR) : 9  
Classification code (ADR) : M7  
Class (IATA) : 9  
Class (IMDG) : 9  
Class (ADN) : 9  
Classification code (ADN) : M7  
Danger labels (ADR) : 9,



Hazard labels (IATA) : 9,



Danger labels (IMDG) : 9,



Danger labels (ADN) : 9,



### 14.4. Packing group

Packing group (ADR) : III  
Packing group (IATA) : III  
Packing group (IMDG) : III  
Packing group (ADN) : III

# INSECT KILLER FOGGERS

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 14.5. Environmental hazards

Dangerous for the environment : Yes  
Marine pollutant : Yes



Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Hazard identification number (Kemler No.) : 90  
Classification code (ADR) : M7  
Orange plates :



Special provisions (ADR) : 274, 335, 601  
Transport category (ADR) : 3  
Tunnel restriction code (ADR) : E  
Limited quantities (ADR) : 5kg  
Excepted quantities (ADR) : E1  
EAC code : 2Z

#### 14.6.2. Transport by sea

Special provisions (IMDG) : 274, 335, 966, 967  
Limited quantities (IMDG) : 5 kg  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P002, LP02  
Special packing provisions (IMDG) : PP12  
IBC packing instructions (IMDG) : IBC08  
IBC special provisions (IMDG) : B3  
Tank instructions (IMDG) : T1, BK1, BK2, BK3  
Tank special provisions (IMDG) : TP33  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-F  
Stowage category (IMDG) : A

#### 14.6.3. Air transport

CAO packing instructions (IATA) : 956  
CAO max net quantity (IATA) : 400kg  
PCA packing instructions (IATA) : 956  
PCA Limited quantities (IATA) : Y956  
PCA limited quantity max net quantity (IATA) : 30kgG  
PCA max net quantity (IATA) : 400kg  
PCA Excepted quantities (IATA) : E1  
Special provisions (IATA) : A97, A158, A179  
ERG code (IATA) : 9L

#### 14.6.4. Inland waterway transport

Special provisions (ADN) : 274, 335, 61  
Limited quantities (ADN) : 5 kg  
Excepted quantities (ADN) : E1  
Carriage permitted (ADN) : T\* B\*\*  
Equipment required (ADN) : PP, A  
Number of blue cones/lights (ADN) : 0  
Additional requirements/Remarks (ADN) : \* Only in the molten state. \*\* For carriage in bulk see also 7.1.4.1. \*\*\* Only in the case of transport in bulk.  
Carriage prohibited (ADN) : No

# INSECT KILLER FOGGERS

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of R-, H- and EUH-statements:

|                                     |   |
|-------------------------------------|---|
| Acute Tox. 4 (Inhalation)           | Acute toxicity (inhal.), Category 4   |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4  |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4   |
| Aquatic Acute 1                     | Hazardous to the aquatic environment — Acute Hazard, Category 1                                 |
| Aquatic Chronic 1                   | Hazardous to the aquatic environment — Chronic Hazard, Category 1                               |
| Aquatic Chronic 2                   | Hazardous to the aquatic environment — Chronic Hazard, Category 2                               |
| Ox. Sol. 1                          | Oxidising Solids, Category 1  |
| Skin Sens. 1                        | Sensitisation — Skin, category 1  |
| H271                                | May cause fire or explosion; strong oxidiser  |
| H302                                | Harmful if swallowed  |
| H317                                | May cause an allergic skin reaction   |
| H332                                | Harmful if inhaled  |
| H400                                | Very toxic to aquatic life  |
| H410                                | Very toxic to aquatic life with long lasting effects  |
| H411                                | Toxic to aquatic life with long lasting effects   |
| R20/22                              | Harmful by inhalation and if swallowed  |
| R43                                 | May cause sensitisation by skin contact   |
| 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      |
| R9                                  | Explosive when mixed with combustible material  |
| N                                   | Dangerous for the environment   |
| O                                   | Oxidising   |
| Xn                                  | Harmful   |

RI - SDS EU (REACH Annex II)

**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. Neither Rentokil Initial plc nor any of its subsidiaries accepts any liability 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.

Copyright © (2015) Rentokil Initial plc, Global Science Centre, Units 7 & 8 Foundry Court, Foundry Lane, Horsham, West Sussex. RH13 5PY. United Kingdom.

Telephone: +44 (0) 1342 833022 Fax: +44 (0) 1403 214101