

# FLY, ANT AND WASP SPRAY

## Safety Data Sheet

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

Date of issue: 12/06/2015  
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# Rentokil

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

### 1.1. Product identifier

Product name : FLY, ANT AND WASP SPRAY  
Brand : RENTOKIL  
Product code : PSF159 300ml  
Type of product : Biocide  
Registration No : HSE 8460, PCS 95175  
Vaporizer : Aerosol  
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 : A multi-purpose insecticidal spray for amateur use against flies, ants, wasps, fleas, cockroaches and other insects in and around 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

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 Beaumont Hospital	PO Box 1297 Beaumont Road Dublin 9	+353 1 809 2166 (public, 8am - 10pm, 7/7)
UNITED KINGDOM	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road Birmingham B18 7QH	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Aerosol 1 H222;H229

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]

F+; R12

N; R50/53

R66

Full text of R-phrases: see section 16

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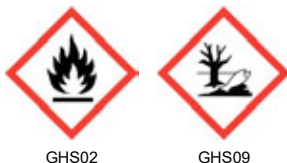
### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazard statements (CLP) :

H222 - Extremely flammable aerosol  
H229 - Pressurised container: May burst if heated  
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P102 - Keep out of reach of children  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P251 - Do not pierce or burn, even after use  
P273 - Avoid release to the environment  
P391 - Collect spillage  
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F  
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.

EUH-statements :

EUH208 - Contains Permethrin. May produce an allergic reaction

### 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
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	(EC no) 918-167-1	25 - 50	Xn; R65 R66 R53
Permethrin	(CAS No) 52645-53-1 (EC no) 258-067-9 (EC index no) 613-058-00-2	0.25	Xn; R20/22 R43 N; R50/53
d-allethrin	(CAS No) 231937-89.6 (EC index no) 209-542-4	0.17	Xn; R22 N; R50/53
1,3-butadiene, buta-1,3-diene	(CAS No) 106-99-0 (EC no) 203-450-8 (EC index no) 601-013-00-X	< 0.1	F+; R12 Carc.Cat.1; R45 Muta.Cat.2; R46

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	(EC no) 918-167-1	25 - 50	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 4, H413
Permethrin	(CAS No) 52645-53-1 (EC no) 258-067-9 (EC index no) 613-058-00-2	0.25	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)
d-allethrin	(CAS No) 231937-89.6 (EC index no) 209-542-4	0.17	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:gas), H332 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,3-butadiene, buta-1,3-diene	(CAS No) 106-99-0 (EC no) 203-450-8 (EC index no) 601-013-00-X	< 0.1	Flam. Gas 1, H220 Press. Gas Carc. 1A, H350 Muta. 1B, H340

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 : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 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 : Not expected to present a significant hazard under anticipated conditions of normal use.

#### 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.
- Unsuitable extinguishing media : Do not use a heavy water stream.

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

- Fire hazard : Flammable liquid and vapour.
- Explosion hazard : May form flammable/explosive vapour-air mixture.

#### 5.3. Advice for firefighters

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

### SECTION 6: Accidental release measures

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

- General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

##### 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

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See also sections 8 and 13. Exposure controls/personal protection. Disposal considerations.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.
- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools.

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

Storage conditions : Protect from heat and direct sunlight. Keep out of reach of children. Keep only in the original container in a cool well ventilated place. Keep away from food, drink and animal feedingstuffs.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

### 7.3. Specific end use(s)

Insecticide.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Petroleum gases, liquefied, Petroleum gas, [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C7 and boiling in the range of approximately -40 °C to 80 °C (-40 °F to 176 °F).] (68476-85-7)**

Ireland	Local name	Liquefied petroleum gas (LPG)
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	1000 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	2250 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	1250 ppm
United Kingdom	Local name	Liquefied petroleum gas
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1750 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	1000 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	2180 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	1250 ppm
United Kingdom	Remark (WEL)	Carc (only applies if LPG contains more than 0.1% of buta-1,3-diene)

### 1,3-butadiene, buta-1,3-diene (106-99-0)

Ireland	Local name	Buta-1,3-diene
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	2.2 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	1 ppm
Ireland	Notes (IE)	Carc1A, Muta1B
United Kingdom	Local name	Buta-1,3-diene
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	10 ppm
United Kingdom	Remark (WEL)	Carc

### 8.2. Exposure controls

Personal protective equipment : 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 during use.

## SECTION 9: Physical and chemical properties

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

Physical state : Liquid

Appearance : Colourless liquid.

Colour : Colourless.

Odour : fragranced.

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 : -0.5 °C

Flash point : -104 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

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Flammability (solid, gas)	: Extremely flammable aerosol, Flammable liquid and vapour
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	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

Additional information : Discharge rate 1.7g/sec at 20degreesC. Net fill weight (for aerosols) 232g.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is stable at normal handling and storage conditions.

### 10.2. Chemical stability

Extremely flammable aerosol.

### 10.3. Possibility of hazardous reactions

The product is stable at normal handling and storage conditions.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

### 10.5. Incompatible materials

Do not spray on naked flame or any incandescent material.

### 10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	5 mg/l
ATE CLP (vapours)	5.000 mg/l/4h
ATE CLP (dust,mist)	5.000 mg/l/4h
4-tert-Butylcyclohexyl acetate (32210-23-4)	
LD50 oral rat	5000 mg/kg
ATE CLP (oral)	5000.000 mg/kg bodyweight
Acetyl hexamethyl tetralin (21145-77-7)	
ATE CLP (oral)	500.000 mg/kg bodyweight
Pentyl salicylate (2050-08-0)	
ATE CLP (oral)	500.000 mg/kg bodyweight
2-Phenylethanol (60-12-8)	
LD50 oral rat	1790 mg/kg Behavioral:Coma. Gastrointestinal disturbance
LD50 dermal rabbit	806 mg/kg
ATE CLP (oral)	1790.000 mg/kg bodyweight
ATE CLP (dermal)	806.000 mg/kg bodyweight
3,7-Dimethyloctan-3-ol (78-69-3)	
LD50 oral rat	> 5000 mg/kg
LD50 oral	4500 mg/kg mouse
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

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<b>d-allethrin (231937-89.6)</b>	
LD50 oral rat	1000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.77 mg/l/4h
ATE CLP (oral)	1000.000 mg/kg bodyweight
ATE CLP (gases)	4500.000 ppmv/4h

Skin corrosion/irritation	: Repeated exposure may cause skin dryness or cracking. Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met
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	: Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

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

#### Hydrocarbons, C11-C12, isoalkanes, <2% aromatics

LC50 fish 1	> 100 mg/l
LC50 other aquatic organisms 1	> 100 mg/l crustaceans
EC50 Daphnia 1	> 100 mg/l
NOEC (chronic)	> 0.1 - 1 mg/l

#### 3,7-Dimethyloctan-3-ol (78-69-3)

LC50 fish 1	>= 8.9 mg/l 96hr - Zebra Fish (Danio rerio) (OECD 203)
EC50 Daphnia 1	14.2 mg/l 48hr - Daphnia magna (Water flea) (OECD 202)
EC50 other aquatic organisms 1	13.2 mg/l 72hr - Desmodesmus subspicatus (green algae) (OECD 201)
NOEC (acute)	5 mg/l 96hr - Zebra Fish (Danio rerio) (OECD 203)
NOEC chronic algae	8.5 mg/l 72hr - Desmodesmus subspicatus (green algae) (OECD 201)

#### 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

#### d-allethrin (231937-89.6)

LC50 fish 1	0.0000708 g/l
EC50 Daphnia 1	0.000061 g/l

### 12.2. Persistence and degradability

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Persistence and degradability	May cause long-term adverse effects in the environment.
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### 12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 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) : 1950

UN-No. (IATA) : 1950

UN-No. (IMDG) : 1950

UN-No. (ADN) : 1950

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : AEROSOLS

Proper Shipping Name (IATA) : Aerosols, flammable

Proper Shipping Name (IMDG) : AEROSOLS

Proper Shipping Name (ADN) : AEROSOLS

Transport document description (ADR) : UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS

### 14.3. Transport hazard class(es)

Class (ADR) : 2

Classification code (ADR) : 5F

Class (IATA) : 2

Class (IMDG) : 2

Class (ADN) : 2

Classification code (ADN) : 5F

Danger labels (ADR) : 2.1,



Division (IATA) : 2.1

Hazard labels (IATA) : 2.1,



Danger labels (IMDG) : 2.1,



Danger labels (ADN) : 2.1,



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### 14.4. Packing group

Not applicable

### 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

Classification code (ADR) : 5F  
Special provisions (ADR) : 190, 327, 344, 625  
Transport category (ADR) : 2  
Tunnel restriction code (ADR) : D  
Limited quantities (ADR) : 1I  
Excepted quantities (ADR) : E0

#### 14.6.2. Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 959  
Limited quantities (IMDG) : SP277  
Excepted quantities (IMDG) : E0  
Packing instructions (IMDG) : P207, LP02  
Special packing provisions (IMDG) : PP87, L2  
EmS-No. (Fire) : F-D  
EmS-No. (Spillage) : S-U  
Stowage category (IMDG) : None  
Stowage and segregation (IMDG) : Protected from sources of heat For AEROSOLS with a maximum capacity of 1 litre: Category A. Segregation as for class 9 but 'Separated from' class 1 except division 1.4. For AEROSOLS with a capacity above 1 litre: Category B. Segregation as for the appropriate sub-division of class 2. For WASTE AEROSOLS: Category C. Clear of living quarters. Segregation as for the appropriate sub-division of class 2.

#### 14.6.3. Air transport

CAO packing instructions (IATA) : 203  
CAO max net quantity (IATA) : 150kg  
PCA packing instructions (IATA) : 203  
PCA Limited quantities (IATA) : Y203  
PCA limited quantity max net quantity (IATA) : 30kgG  
PCA max net quantity (IATA) : 75kg  
PCA Excepted quantities (IATA) : E0  
Special provisions (IATA) : A145, A167, A802  
ERG code (IATA) : 10L

#### 14.6.4. Inland waterway transport

Special provisions (ADN) : 19, 327, 344, 625  
Limited quantities (ADN) : 1 L  
Excepted quantities (ADN) : E0  
Equipment required (ADN) : PP, EX, A  
Ventilation (ADN) : VE01, VE04  
Number of blue cones/lights (ADN) : 1  
Carriage prohibited (ADN) : No

### 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



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- 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.
- Training advice : Use biocides safely. Always read the label and product information before use. Ensure you have received adequate training and/or instructions before use.
- Other information : None.

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

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aerosol 1	Aerosol, Category 1
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 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Skin Sens. 1	Sensitisation — Skin, category 1
H222	Extremely flammable aerosol
H226	Flammable liquid and vapour
H229	Pressurised container: May burst if heated
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
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
H413	May cause long lasting harmful effects to aquatic life
R12	Extremely flammable
R20/22	Harmful by inhalation and if swallowed
R22	Harmful 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
R53	May cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
R66	Repeated exposure may cause skin dryness or cracking
F+	Extremely flammable
N	Dangerous for the environment
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.

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