

## SAFETY DATA SHEET

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### Permethrin 25% WP

 Revision 0  
 Revision date

#### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

**Product name** Permethrin 25% WP  
**Company** Hockley International Ltd  
 Hockley House  
 354 Park Lane  
 Poynton  
 Stockport  
 SK12 1RL  
**Telephone** 01625 878590  
**Fax** 01625 877285

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

##### Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
Permethrin (ISO)	20 - 30%	52645-53-1	258-067-9	Xn; R20/22 R43 N; R50/53
Suspending Agent 200	1 - 5%	7631-86-9		Xi; R36/37/38
Calcium Silicate (Calcium silicate respirable)	10 - 20%	1344-95-2		
Kaolin China Clay (Kaolin, respirable dust)	50 - 60%	1332-58-7	2964738	

#### 3. HAZARDS IDENTIFICATION

**Main hazards** Harmful by inhalation and if swallowed. May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 4. FIRST AID MEASURES

**Skin contact** Wash off immediately with plenty of soap and water. Remove contaminated clothing. May cause irritation to skin. Seek medical attention if irritation or symptoms persist.

**Eye contact** Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Contact lenses should be removed. May cause irritation to eyes. Seek medical attention.

**Inhalation** Move the exposed person to fresh air. If breathing stops, provide artificial respiration. Seek medical attention.

**Ingestion** Immediate medical attention is required. DO NOT INDUCE VOMITING. Drink 1 to 2 glasses of water. Never give anything by mouth to an unconscious person.

**General information** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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## 5. FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Carbon dioxide (CO <sub>2</sub> ) Dry chemical. Foam. Water spray. Do NOT use ... Water jet.
<b>Fire hazards</b>	Do not release chemically contaminated water into drains, soil or surface water. Take care to retain water used for extinguishing and dispose of according to local regulations. Burning produces compounds of carbon, oxygen and chlorine.
<b>Protective equipment</b>	Wear: Self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Ensure adequate ventilation of the working area. Wear suitable protective equipment.
<b>Environmental precautions</b>	Do not let product contaminate subsoil. Do not allow product to enter drains. Do not flush into surface water. Prevent further spillage if safe.
<b>Clean up methods</b>	Avoid raising dust. Sweep up. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with eyes and skin. Do not breathe gas/fumes/vapour/spray. Do not empty into drains. Ensure adequate ventilation of the working area. Wear suitable protective equipment. Do not eat, drink or smoke in areas where this product is used or stored.
<b>Storage</b>	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store at temperatures below 30 °C. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits

Calcium Silicate (Calcium silicate respirable)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m <sup>3</sup> : 4 WEL 15 min limit mg/m <sup>3</sup> : -
Calcium Silicate (Calcium silicate total inhalable dust)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m <sup>3</sup> : 10 WEL 15 min limit mg/m <sup>3</sup> : -
Kaolin China Clay (Kaolin, respirable dust)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m <sup>3</sup> : 2 WEL 15 min limit mg/m <sup>3</sup> : -

<b>Engineering measures</b>	Ensure adequate ventilation of the working area.
<b>Respiratory protection</b>	Suitable half mask respirator with filter P3 (EN 143)
<b>Hand protection</b>	Chemical resistant gloves (PVC)
<b>Eye protection</b>	Face shield. Approved safety goggles.
<b>Protective equipment</b>	Chemical resistant clothing. Rubber boots.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Description</b>	Powder.
<b>Colour</b>	White.
<b>Odour</b>	Characteristic.
<b>pH</b>	6.5 - 7.5
<b>Flash point</b>	100°C
<b>Flammability limits</b>	Not Flammable
<b>Explosive</b>	None
<b>Oxidising</b>	None
<b>Relative density</b>	0.60 +/- 0.05 @ 20°C
<b>Autoignition temperature</b>	> 450°C

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions. Decomposition will start at 100°C.
<b>Conditions to avoid</b>	Direct sunlight.
<b>Materials to avoid</b>	Strong oxidising agents.
<b>Hazardous decomposition products</b>	Burning produces compounds of carbon, oxygen and chlorine.

## 11. TOXICOLOGICAL INFORMATION

### Toxicological information

Permethrin 25% WP	Oral Mouse LD50 = 2,160 mg/kg Dermal Rat LD50 = > 10,000 mg/kg Oral Rat LD50 = 1,750 mg/kg Dermal Rabbit LD50 = > 8,000 mg/kg Inhalation Rat LC50/ 4 h = > 25.0 mg/l
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Permethrin (ISO)	Oral Mouse LD50 = 2,160 mg/kg Dermal Rat LD50 = > 10,000 mg/kg Oral Rat LD50 = 1,750 mg/kg Dermal Rabbit LD50 = > 8,000 mg/kg Inhalation Rat LC50/ 4 h = > 25.0 mg/l
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Suspending Agent 200	Oral Mouse LD50 = 2,160 mg/kg Dermal Rat LD50 = > 10,000 mg/kg Oral Rat LD50 = 1,750 mg/kg Dermal Rabbit LD50 = > 8,000 mg/kg Inhalation Rat LC50/ 4 h = > 25.0 mg/l
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<b>Corrosivity</b>	May cause irritation to eyes. May cause irritation to skin.
<b>Sensitization</b>	May cause sensitisation by skin contact.
<b>Repeated or prolonged exposure</b>	Prolonged or repeated exposure may cause irritation to skin and mucous membranes. May cause allergic reactions in susceptible people.
<b>Mutagenic effects</b>	None.
<b>Carcinogenic effects</b>	None.
<b>Reproductive toxicity</b>	None.

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Permethrin 25% WP	Daphnia LC50/48h = 2.40 ug/l Rainbow trout LC50/96h = 10.0 ug/l Bluegill sunfish LC50/96h = 7.20 ug/l Quail LC50/8 days = > 10,000 mg/kg
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**Mobility** Mobile in most soils.

**Degradability** Water endangering.

## 13. DISPOSAL CONSIDERATIONS

<b>General information</b>	Do not empty into drains. NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.
<b>Disposal methods</b>	Can be incinerated if in compliance with local and national regulations. Can be sent to landfill if in compliance with local and national regulations.
<b>Disposal of packaging</b>	Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.

## 14. TRANSPORT INFORMATION

### ADR/RID

<b>UN</b> 3077	<b>Packing group</b> III
<b>Class</b> 9	<b>Hazard ID</b> 90
<b>Proper Shipping Name</b> ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Permethrin).	

### IMDG

<b>UN</b> 3077	<b>Packing group</b> III
<b>Class</b> 9	<b>Marine pollutant</b> YES
<b>EmS Code</b> F-A S-F	

### IATA

<b>UN</b> 3077	<b>Packing group</b> III
<b>Class</b> 9	<b>Subsidiary risk</b> -
<b>Packing Instruction</b> 911 (Cargo)	<b>Maximum quantity</b> 400 kg
<b>Packing Instruction</b> 911 (Passenger)	<b>Maximum quantity</b> 400 kg

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## 15. REGULATORY INFORMATION

**Symbols**

Xn - Harmful; N - Dangerous for the environment

**Risk phrases**

R36/38 - Irritating to eyes and skin.

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.

**Safety phrases**

S23 - Do not breathe gas/fumes/vapour/spray.

S24 - Avoid contact with skin.

S29 - Do not empty into drains.

S37 - Wear suitable gloves.

S42 - During fumigation/spraying wear suitable respiratory equipment.

S51 - Use only in well-ventilated areas.

## 16. OTHER INFORMATION

**Text of risk phrases in**

R20/22 - Harmful by inhalation and if swallowed.

**Section 2**

R36/37/38 - Irritating to eyes, respiratory system and skin.

R43 - May cause sensitisation by skin contact.

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