

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

Extinguishing media	Carbon dioxide (CO ₂) Dry chemical. Foam. Water spray. Do NOT use ... Water jet.
Fire hazards	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.
Protective equipment	Wear: Self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

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

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

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9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions. Decomposition will start at 100°C.
Conditions to avoid	Direct sunlight.
Materials to avoid	Strong oxidising agents.
Hazardous decomposition products	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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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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Corrosivity	May cause irritation to eyes. May cause irritation to skin.
Sensitization	May cause sensitisation by skin contact.
Repeated or prolonged exposure	Prolonged or repeated exposure may cause irritation to skin and mucous membranes. May cause allergic reactions in susceptible people.
Mutagenic effects	None.
Carcinogenic effects	None.
Reproductive toxicity	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

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

14. TRANSPORT INFORMATION

ADR/RID

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

IMDG

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

IATA

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