

**SAFETY DATA SHEET**

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**Permost 0.5 % Dust**

Revision No. 0

Revision Date

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product name** Permost 0.5 % Dust**Company** Hockley International Ltd  
Hockley House  
354 Park Lane  
Poynton  
Stockport  
SK12 1RL**Telephone** 01625 878590**Telefax** 01625 877285**2. COMPOSITION/INFORMATION ON INGREDIENTS**

| Hazardous components | Conc.     | CAS        | EINECS    | Risks                |
|----------------------|-----------|------------|-----------|----------------------|
| Permethrin (ISO)     | 0 - 5%    | 52645-53-1 | 258-067-9 | Xn;N;R20/22-43-50/53 |
| Calcium Silicate     | 1 - 5%    | 1344-95-2  |           |                      |
| Talc                 | 90 - 100% | 14807-96-6 |           |                      |

**3. HAZARDS IDENTIFICATION****Most important hazards** Irritating to eyes and skin. 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 soap and plenty of water while removing all contaminated clothes and shoes.**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.**Inhalation** Move to fresh air. Consult a physician.**Ingestion** Immediate medical attention is required. Do not induce vomiting without medical advice. Immediately give large quantities of water to drink.**General advice** First aider needs to protect himself. In the 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>Suitable extinguishing media</b>                                  | Carbon dioxide (CO <sub>2</sub> ). Dry powder. Foam. Water spray.                                                                                                                                                                               |
| <b>Extinguishing media which must not be used for safety reasons</b> | High volume water jet.                                                                                                                                                                                                                          |
| <b>Specific hazards</b>                                              | Burning produces compounds of carbon, nitrogen, and sulphur. . 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. |
| <b>Special protective equipment for fire-fighters</b>                | In the event of fire, wear self-contained breathing apparatus.                                                                                                                                                                                  |

## 6. ACCIDENTAL RELEASE MEASURES

|                                  |                                                                                                                                                                                                               |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b>      | Ensure adequate ventilation. Use personal protective equipment.                                                                                                                                               |
| <b>Environmental precautions</b> | Avoid subsoil penetration. Do not allow material to contaminate ground water system. Do not contaminate surface water. Do not let product enter drains. Prevent further leakage or spillage if safe to do so. |
| <b>Methods for cleaning up</b>   | Soak up with inert absorbent material and dispose of as hazardous waste.                                                                                                                                      |

## 7. HANDLING AND STORAGE

|                 |                                                                                                                                                                                                                    |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling</b> | Avoid contact with skin and eyes. Do not breathe vapours or spray mist. Do not eat, drink or smoke when using this product.                                                                                        |
| <b>Storage</b>  | Keep locked-up. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep at temperatures below 30°C. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children. |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                                 |                                                                      |                                                                                |
|---------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Exposure limit(s)</b>        |                                                                      |                                                                                |
| Calcium silicate respirable     | WEL 8-hr limit ppm: -<br>WEL 15 min limit ppm: -                     | WEL 8-hr limit mg/m <sup>3</sup> : 4<br>WEL 15 min limit mg/m <sup>3</sup> : - |
| Talc, respirable dust           | WEL 8-hr limit ppm: -<br>WEL 15 min limit ppm: -                     | WEL 8-hr limit mg/m <sup>3</sup> : 1<br>WEL 15 min limit mg/m <sup>3</sup> : - |
| <b>Engineering measures</b>     | Ensure adequate ventilation, especially in confined areas.           |                                                                                |
| <b>Respiratory protection</b>   | Suitable mask with particle filter P3 (European Norm 143).           |                                                                                |
| <b>Hand protection</b>          | PVC or other plastic material gloves.                                |                                                                                |
| <b>Eye protection</b>           | Face-shield. Goggles.                                                |                                                                                |
| <b>Skin and body protection</b> | Complete suit protecting against chemicals. Rubber or plastic boots. |                                                                                |

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                  |                      |
|----------------------------------|----------------------|
| <b>Description</b>               | Powder.              |
| <b>Colour</b>                    | White.               |
| <b>Odour</b>                     | None.                |
| <b>pH</b>                        | 6.5 - 7.5            |
| <b>Flash point</b>               | 100°C                |
| <b>Flammability (solid, gas)</b> | Not Flammable        |
| <b>Explosive properties</b>      | None                 |
| <b>Oxidizing properties</b>      | None                 |
| <b>Vapour pressure</b>           | 0.5 nPa @ 70°C       |
| <b>Relative density</b>          | 0.60 +/- 0.05 @ 20°C |
| <b>Water solubility</b>          | low.                 |
| <b>Autoignition temperature</b>  | > 450°C              |

## 10. STABILITY AND REACTIVITY

|                                         |                                                                                                                    |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>                        | Stable under normal conditions. Stable under recommended storage conditions.<br>Decomposition starting from 100°C. |
| <b>Conditions to avoid</b>              | None.                                                                                                              |
| <b>Materials to avoid</b>               | Acids. Alkali metals. Strong oxidizing agents.                                                                     |
| <b>Hazardous decomposition products</b> | Carbon monoxide. Carbon oxides. Nitrogen oxides (NOx). Sulphur oxides.                                             |

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## 11. TOXICOLOGICAL INFORMATION

### Toxicological information

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LD50/oral/mouse = &gt; 10,000 mg/kg

LD50/dermal/rat = &gt; 10,000 mg/kg

LD50/oral/rat = &gt; 10,000 mg/kg

LD50/dermal/rabbit = &gt; 10,000 mg/kg

LC50/inhalation/ 4 h/rat = &gt; 250.0 mg/l

|                                       |                                                                                                                                                                                            |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Primary irritation</b>             | Irritating to eyes and skin.                                                                                                                                                               |
| <b>Sensitization</b>                  | May cause sensitisation by skin contact.                                                                                                                                                   |
| <b>Repeated or prolonged exposure</b> | Prolonged exposure causes local irritation of skin and mucous membranes, especially to the eyes. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. |
| <b>mutagenic effects</b>              | None.                                                                                                                                                                                      |
| <b>carcinogenic effects</b>           | None.                                                                                                                                                                                      |
| <b>Reproductive toxicity</b>          | None.                                                                                                                                                                                      |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

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EC50/48h/daphnia = 0.12 mg/l

LC50/96h/rainbow trout = 0.50 mg/l

LC50/48h/bluegill sunfish = 0.36 mg/l

|                                      |                                                                                                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Mobility</b>                      | Mobile in most soils.                                                                                           |
| <b>Persistence and degradability</b> | Water endangering.                                                                                              |
| <b>Further Information</b>           | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Toxic to bees. |

## 13. DISPOSAL CONSIDERATIONS

|                               |                                                                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specific methods</b>       | Can be incinerated, when in compliance with local regulations. Can be landfilled after chemical and physical treatment, when in compliance with local regulations. |
| <b>Contaminated packaging</b> | Empty containers can be landfilled after cleaning, when in compliance with local regulations.                                                                      |

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## 14. TRANSPORT INFORMATION

### ADR/RID

|                             |                                                                                   |                      |     |
|-----------------------------|-----------------------------------------------------------------------------------|----------------------|-----|
| <b>UN-No</b>                | 3077                                                                              | <b>Packing group</b> | III |
| <b>Class</b>                | 9                                                                                 | <b>Hazard ID</b>     | 90  |
| <b>Proper shipping name</b> | ENVIRONMENTALLY<br>HAZARDOUS SUBSTANCE,<br>SOLID, N.O.S. (contains<br>Permethrin) |                      |     |

### IMDG-Code

|              |         |                         |     |
|--------------|---------|-------------------------|-----|
| <b>UN-No</b> | 3077    | <b>Packing group</b>    | III |
| <b>Class</b> | 9       | <b>Marine pollutant</b> | YES |
| <b>EmS</b>   | F-A S-F |                         |     |

### IATA-DGR

|                            |                             |                         |          |
|----------------------------|-----------------------------|-------------------------|----------|
| <b>UN-No</b>               | 3077                        | <b>Packing group</b>    | III      |
| <b>Class</b>               | 9                           | <b>Sub-risks</b>        | -        |
| <b>Packing instruction</b> | 911<br>(cargo aircraft)     | <b>Maximum quantity</b> | NO LIMIT |
| <b>Packing instruction</b> | 911<br>(passenger aircraft) | <b>Maximum quantity</b> | NO LIMIT |

## 15. REGULATORY INFORMATION

### Symbol(s)

N - Dangerous for the environment



### R-phrase(s)

R36/38 - Irritating to eyes and skin.  
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### S-phrase(s)

S 1/2 - Keep locked up and out of the reach of children.  
S13 - Keep away from food, drink and animal feedingstuffs.  
S22 - Do not breathe dust.  
S29 - Do not empty into drains.  
S46 - If swallowed, seek medical advice immediately and show this container or label.

## 16. OTHER INFORMATION

### Text of R phrases

R20/22 - Harmful by inhalation and if swallowed.

### mentioned in Section 2

R43 - May cause sensitization by skin contact.

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