

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

**1.1 Product Identifier:** **NIPPON WOODLICE KILLER POWDER**  
**1.2 Relevant uses of the substance or mixture and uses advised against:**  
 Insecticide  
**1.3 Manufacturer/Distributor:** Vitax Limited  
 Owen Street  
 Coalville  
 LE67 3DE  
 Tel: +44 (0)1530 510060 Email: info@vitax.co.uk  
**1.4 Emergency Contact:** Tel: +44 (0)1530 510060 (Office Hours)

## 2. HAZARDS IDENTIFICATION

**2.1 Classification:** **Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)**  
**Health hazards** Elicitation - EUH208  
**Environmental hazards** Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410  
**2.2 Label Elements:** Contains 0.488% Permethrin (EC 258-067-9)



**Signal word:** Warning  
**Hazard statements:** H410 Very toxic to aquatic life with long lasting effects.  
**Precautionary Statements** P102 Keep out of reach of children.  
 P273 Avoid release to the environment.  
 P501 Dispose of contents/container in accordance with local regulations.  
**2.3 Other Hazards:** EUH208 Contains PERMETHRIN. May produce an allergic reaction.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Chemical Name	CAS-No./ EINECS-No.	Annex Index or REACH number	Symbol(s) and Phrases	Precautionary Statements:	Concentration [%]
Permethrin	52645-53-1 258-067-9	N/A	Acute Tox. 4 - H302, H332 Skin Sens. 1B - H317 Aquatic Acute 1 - H400, H410 M factor (Acute) = 1000 M factor (Chronic) = 1000		0.488%
talc	14807-96-6	n/a	n/a		60-100%

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General information

#### Inhalation

Remove victim immediately from source of exposure. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.

#### Ingestion

Rinse mouth thoroughly. Drink plenty of water. Get medical attention if any discomfort continues.

#### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

#### Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

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

In some individuals a characteristic and reversible skin irritation effect characteristic of natural pyrethrins may be experienced. Deliberate ingestion could lead to neurological signs and symptoms such as ataxia, tremors or convulsions.

### 4.3 Indication of immediate medical attention and special treatment needed:

Not available.

## 5. FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

**Extinguishing media** Extinguish with foam, carbon dioxide, dry powder or water fog.

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

**Hazardous combustion products** None under normal conditions.

**Unusual Fire & Explosion Hazards** Not known.

### 5.3. Advice for firefighters

**Special Fire Fighting Procedures** Avoid breathing fire vapours.

**Protective equipment for fire-fighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6. ACCIDENTAL RELEASE MEASURES

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

Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

Do not discharge onto the ground or into water courses.

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

Collect spillage with shovel, broom or the like and reuse, if possible. Dispose of large amounts of spillage/waste according to agreement with local authorities.

### 6.4. Reference to other sections

None

## 7. HANDLING & STORAGE

### 7.1. Precautions for safe handling

Avoid inhalation of dust and contact with skin and eyes.

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

Store in tightly closed original container in a dry, cool and well-ventilated place.

Keep separate from food, feedstuffs, fertilisers and other sensitive material.

#### Storage Class

Miscellaneous hazardous material storage.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

#### Usage Description

Pesticide.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### 8.1 Control parameters:

#### PERMETHRIN

Long-term exposure limit (8-hour TWA): 5 mg/m<sup>3</sup>

#### Talc

Long-term exposure limit (8-hour TWA): 1 mg/m<sup>3</sup>

OEL = Occupational Exposure Limit.

WEL = Workplace Exposure Limit

### 8.2 Exposure Controls:

#### Protective equipment

Dust mask

#### Engineering measures

Provide adequate general and local exhaust ventilation.

#### Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

#### Hand protection

Gloves.

#### Eye protection

No specific eye protection noted, but may be required anyway.

#### Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet.

## 9. PHYSICAL & CHEMICAL PROPERTIES

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

#### Appearance

Powder, dust

#### Colour

Grey.

#### Odour

Slight odour.

#### Solubility

Slightly soluble in water.

### 9.2 Other information:

None.

## 10. STABILITY & REACTIVITY

### 10.1. Reactivity

Not known

### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3. Possibility of hazardous reactions

Not known.

#### Hazardous Polymerisation

Will not polymerise.

### 10.4. Conditions to avoid

Not relevant

### 10.5. Incompatible materials

#### Materials To Avoid

No incompatible groups noted.

### 10.6. Hazardous decomposition products

Not known.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity

PERMETHRIN TECHNICAL 25/75

Oral LD50 OECD 401	554 mg/kg bw Rat (male/female)
Dermal LD50 OECD 402	> 2000 mg/kg 14 day(s) Rat (male/female)
Inhalation (aerosol) LC50 OECD 403	> 4.638 mg/l 4 h Rat (male/female) (maximum attainable aerosol concentration)

#### Corrosion/irritation

PERMETHRIN TECHNICAL 25/75

Eye OECD 405 4 h	Not irritating 1; 24; 48; 72 hours Rabbit
Skin OECD 404 4 h	Not irritating 1; 24; 48; 72; 168 hours Rabbit

#### Respiratory or skin sensitisation

PERMETHRIN TECHNICAL 25/75

OECD 406	Not sensitizing Guinea pig (male/female) Skin 24; 48 hours
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Classification of this substance according to Annex VI is debatable as it does not correspond to the conclusion from the test

#### Specific target organ toxicity

PERMETHRIN TECHNICAL 25/75

Oral (diet) NOAEL OECD 408	8.6 mg/kg bw/day No effect 90 day(s) Rat (male/female)
Dermal NOAEL OECD 411	1000 mg/kg bw/day No effect 13 weeks (6h/day, 5 days/week) Rat (male/female)
Inhalation (aerosol) NOAEL OECD 413	0.2201 mg/l air No effect 13 weeks (6h/day, 5 days/week) Rat (male/female)
Conclusion	Not classified for subchronic toxicity

#### Mutagenicity (in vitro)

PERMETHRIN TECHNICAL 25/75

OECD 473 Chinese hamster ovary (CHO) Negative with metabolic activation, negative without metabolic activation

#### Mutagenicity (in vivo)

PERMETHRIN TECHNICAL 25/75

OECD 475 2 dose(s)/24-hour interval	Negative Mouse (male/female) Bone marrow
Conclusion	Not classified for mutagenic or genotoxic toxicity

#### Carcinogenicity

PERMETHRIN TECHNICAL 25/75

Oral NOAEL OECD 453	75 mg/kg bw/day Rat (male/female) No carcinogenic effect
Conclusion	Not classified for carcinogenicity

#### Reproductive toxicity

PERMETHRIN TECHNICAL 25/75

Developmental toxicity NOAEL OECD 414	500 mg/kg bw/day Rabbit (female) No effect
Maternal toxicity NOAEL OECD 414	250 mg/kg bw/day Rabbit (female) No effect
Effects on fertility NOAEL OECD 416	500 mg/kg bw/day Rat (male/female) No effect
Conclusion	Not classified for reprotoxic or developmental toxicity

#### Toxicity other effects

PERMETHRIN TECHNICAL 25/75

No (test) data available

#### Chronic effects from short and long-term exposure

PERMETHRIN TECHNICAL 25/75

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

This product has not been tested but contains ingredients which are toxic or very toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

#### 12.1 Toxicity:

PERMETHRIN TECHNICAL 25/75

Acute toxicity fishes LC50 OECD 203	8.9 µg/l 96 h Poecilia reticulata Semi-static system Fresh water
	0.145 mg/l 96 h Cyprinus carpio

Acute toxicity crustacea

EC50 OECD 202	0.00127 mg/l 48 h Daphnia magna
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Toxicity algae and other aquatic plants

EC50 OECD 201	> 1.13 mg/l 72 h Pseudokirchneriella subcapitata
NOAEL OECD 201	> 0.013 mg/l 72 h Pseudokirchneriella subcapitata

Long-term toxicity fish NOEC OECD 210	0.00041 mg/l 35 day(s) Danio rerio
Long-term toxicity aquatic crustacea NOEC OECD 211	0.0047 µg/l 21 day(s) Daphnia magna
Toxicity aquatic micro- organisms EC50 OECD 209	> 1000 mg/l 3 h Activated sludge
NOEC OECD 209	0.00495 mg/l 3 h Activated sludge
Toxicity soil macro-organisms EC50 OECD 207	126 mg/kg soil dw 14 day(s) Lampito mauritii
Toxicity other terrestrial organisms LD50	0.163 µg/l Apis mellifera

**12.2 Persistence and degradability:**

PERMETHRIN TECHNICAL 25/75

**Biodegradation water**

OECD 301B: CO2 Evolution Test 5 % 28 day(s)

**Phototransformation air (DT50 air)**

AOPWIN v1.91 0.701 day(s) 500000 /cm<sup>3</sup> QSAR

**Half-life water (t1/2 water)**

> 1 year(s); pH < 7  
> 1 year(s); pH = 7  
35 day(s) - 42 day(s); pH > 7  
11 day(s) - 21.2 day(s)

**Half-life soil (t1/2 soil)**

**12.3 Bioaccumulative potential:**

PERMETHRIN TECHNICAL 25/75

BCF fishes 290 - 620 Cyprinodon variegatus

Log Kow 4.67 at 25 °C

**12.4 Mobility in soil:**

PERMETHRIN TECHNICAL 25/75

Volatility (Henry's Law constant H) 0.0046 Pa.m<sup>3</sup>/mol

**12.5 Results of PBT and vPvB:**

Substance does not meet the criteria of PBT, nor the criteria of vPvB according to Annex XIII of Regulation (EC) No 1907/2006, so is neither PBT nor vPvB..

**12.6 Other adverse data:**

no data

**13. DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

This material and its container must be disposed of in a safe way.

**14. TRANSPORT INFORMATION**

**General**

This product is packed in accordance with the Limited Quantity Provisions of ADR and IMDG. These provisions allow transport to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Product not so packed and labelled must show the following.

**14.1. UN number**

UN No. (ADR/RID/ADN)	3077
UN No. (IMDG)	3077
UN No. (ICAO)	3077

**14.2. UN proper shipping name**

**Proper Shipping Name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(PERMETHRIN)

**14.3. Transport hazard class(es)**

ADR/RID/ADN	Class 9
ADR/RID/ADN Class	Class 9: Miscellaneous dangerous substances and articles.
ADR Label	No. 9
IMDG	Class 9
ICAO	Class/Division 9
Transport Labels	MISCELLANEOUS DANGEROUS GOODS 9

**14.4. Packing group**

ADR/RID/ADN	Packing group III
IMDG	Packing group III
ICAO	Packing group III

**14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant

**14.6. Special precautions for user**

EMS F-A, S-F

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Emergency Action Code 2Z  
Hazard No. (ADR) 90  
Tunnel Restriction Code (E)

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**  
Not applicable.

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**15. REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific to this substance:**

EU legislation 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 (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

**15.2 Chemical Safety Assessment** not undertaken for this material

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**16. OTHER INFORMATION**

**Reason for revision:**

Replaces version dated June 2015. All sections updated.

**Hazard statements in full**

EUH208 Contains PERMETHRIN. May produce an allergic reaction.  
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.

**Liability**

The product label provides information on the use of the product: do not use otherwise, unless you have assessed any potential hazard involved and the safety measures required. Prepared by VITAX LTD, for Health and Safety purposes from the best knowledge available at the time of printing.