

# SAFETY DATA SHEET

Date of Issue: October 2020

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

**1.1 Product Identifier:** **NIPPON FAST ACTING ANT KILLER POWDER**  
 Name: Deltamethrin 0.05% DP  
 Authorisation number: UK-2017-1104 IE/BPA 70394  
**1.2 Relevant uses of the substance or mixture and uses advised against:**  
 Biocide  
**1.3 Manufacturer/Distributor:** Vitax Limited, Owen Street, Coalville, Leicestershire 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 0.051% Deltamethrin (EC 258-256-6)



**Signal word:** Warning  
**Hazard statements:** H410 Very toxic to aquatic life with long lasting effects.  
**Precautionary Statements:** P101 If medical advice is needed, have product container or label to hand.  
 P102 Keep out of reach of children.  
 P103 Read the label before use.  
 P273 Avoid release to the environment.  
 P391 Collect spillage.  
 P501 Dispose of contents/container to hazardous or special waste collection point, in accordance with local regulations.  
**2.3 Other Hazards:** No additional information available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Chemical Name	CAS-No./ EINECS-No.	Symbol(s) and Phrases		Concentration [%]
deltamethrin (ISO); (S)- $\alpha$ -cyano-3-phenoxybenzyl (1R, 3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate	(CAS-No.) 52918-63-5 (EC-No.) 258-256-6 (EC Index-No.) 607-319-00-X	Acute Tox. 3 (inhalation) - H331 Acute Tox (oral) - H301 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	M factor (Acute) = 1000000 M factor (Chronic) = 1000000	0.051%

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General information

#### Inhalation

Never give anything by mouth to an unconscious person.

Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.

#### Ingestion

Get immediate medical advice/attention. Immediately call a POISON CENTER/doctor. If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting.

#### Skin contact

Remove contaminated clothes. After contact with skin, wash immediately and thoroughly with water and soap. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

#### Eye contact

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.

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

No additional information available.

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

No additional information available.

## 5. FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

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

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

**Fire hazard** In case of fire and/or explosion do not breathe fumes

**Hazardous combustion products** Carbon monoxide. Nitrogen oxides. Carbon dioxide. Toxic fumes may be released.

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

### 5.3. Advice for firefighters

**Special Fire Fighting Procedures** Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials. Avoid breathing fire vapours. Get the package away from the fire if this can be done without risk. Prevent fire-fighting water from entering the environment. Do not allow material to contaminate surface water system.

**Protective equipment for fire-fighters** Appropriate self-contained breathing apparatus may be required. Wear fire/flame resistant/retardant clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

## 6. ACCIDENTAL RELEASE MEASURES

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

Wear suitable protective clothing, gloves and eye or face protection. Chemical resistant gloves (according to European standard NF EN 374 or equivalent). EN 166. Wear eye protection. Personal protective equipment. EN ISO 20345.

### 6.2. Environmental precautions

Avoid creating or spreading dust. Dispose of rinse water as waste water. Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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

Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Label the container and provide warning statements to prevent any contact. Carefully collect remainder. Minimise generation of dust. Wash contaminated area with large amounts of water.

### 6.4. Reference to other sections

None

## 7. HANDLING & STORAGE

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes. Do not eat, drink or smoke in areas where product is used. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Remove contaminated clothing and shoes. Wash clothing and equipment after handling. Do not allow run-off from fire-fighting to enter drains or water courses. Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

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

Ensure adequate ventilation, especially in confined areas. Store locked up. Keep only in original container. Store in a dry place. Store in a closed container. Store in a well-ventilated place. Protect from sunlight.

**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**

Biocide.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### 8.1 Control parameters:

#### Quartz (14808-60-7)

EU - Occupational Exposure Limits

Local name

Silica crystalline (Quartz)

IOELV TWA (mg/m<sup>3</sup>)

0.05 mg/m<sup>3</sup> (respirable dust)

Notes

(Year of adoption 2003)

Regulatory reference

SCOEL Recommendations

United Kingdom - Occupational Exposure Limits

Local name

Silica

WEL TWA (mg/m<sup>3</sup>)

0.1 mg/m<sup>3</sup> respirable crystalline

Regulatory reference

EH40/2005 (Third edition, 2018). HSE

#### Propane-1,2-diol (57-55-6)

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## United Kingdom - Occupational Exposure Limits

Local name	Propane-1,2-diol
WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> particulates 474 mg/m <sup>3</sup> total vapour and particulates
WEL TWA (ppm)	150 ppm total vapour and particulates
Regulatory reference	EH40/2005 (Third edition, 2018). HSE

## 2,6-Bis(1,1-dimethylethyl)-4-methylphenol (128-37-0)

## United Kingdom - Occupational Exposure Limits

Local name	2,6-Di-tert-butyl-p-cresol
WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Regulatory reference	EH40/2005 (Third edition, 2018). HSE 8.2. Exposure controls

### 8.2 Exposure Controls:

Hand protection:	Chemical resistant gloves (according to European standard NF EN 374 or equivalent)
Eye protection:	EN 166. Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles
Skin and body protection:	Long sleeved protective clothing
Respiratory protection:	
Extra personal protection:	P2 filter respirator for harmful particles.
Extra personal protection:	P3 filter respirator for toxic particles

## 9. PHYSICAL & CHEMICAL PROPERTIES

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

Physical state:	Solid
Colour:	white.
Odour:	odourless.
Odour threshold:	No data available
pH:	No data available
pH solution:	7.12 (1% solution)
Relative evaporation rate (butylacetate=1):	No data available
Melting point:	No data available
Freezing point:	No data available
Boiling point:	No data available
Flash point:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	Not flammable, Not self-igniting
Vapour pressure:	No data available
Relative vapour density at 20 °C:	No data available
Relative density:	0.843 g/cm <sup>3</sup>
Solubility:	No data available
Partition coefficient n-octanol/water (Log Pow):	> 4.6
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosive properties:	Not explosive.
Oxidising properties:	Non-oxidizing.
Explosive limits:	No data available

**9.2 Other information:** None.

## 10. STABILITY & REACTIVITY

<b>10.1. Reactivity</b>	Stable under normal conditions of use.
<b>10.2. Chemical stability</b>	The product is stable at normal handling and storage conditions.
<b>10.3. Possibility of hazardous reactions</b>	Stable under normal conditions of use.
<b>Hazardous Polymerisation</b>	Will not polymerise.
<b>10.4. Conditions to avoid</b>	Heat. High temperature. Open flame. Direct sunlight.

## 10.5. Incompatible materials

### Materials To Avoid

No incompatible groups noted.

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute toxicity (oral):	Not classified
LD50 oral rat	> 2000 mg/kg bodyweight
(Data on formulated product. Guideline OECD 423)	
Acute toxicity (dermal):	Not classified
LD50 dermal rat	> 2000 mg/kg bodyweight
(Data on formulated product. Guideline OECD 402)	
Acute toxicity (inhalation):	Not classified
LC50 inhalation rat (mg/l)	> 1,354 ml/m <sup>3</sup>
(Data on formulated product. Guideline OECD 403)	
Skin corrosion/irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitisation:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT-single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity:

Hazardous to the aquatic environment, short-term (acute):

Very toxic to aquatic life.

Hazardous to the aquatic environment, long-term (chronic):

Very toxic to aquatic life with long lasting effects.

(Data on formulated product. Data obtained by calculations)

LC50 fish 1	≥ 0.26 µg/l <i>Oncorhynchus mykiss</i> (96 h)
EC50 <i>Daphnia</i> 1	0.0000041 ml/l <i>Daphnia magna</i>
ErC50 (algae)	> 0.47 mg/l <i>Chlorella vulgaris</i> (96 h)

### 12.2 Persistence and degradability:

deltamethrin (ISO); (S)- $\alpha$ -cyano-3-phenoxybenzyl(1R, 3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate (52918-63-5)  
Not readily biodegradable.

### 12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (Log Pow)  
> 4.6

**12.4 Mobility in soil:** No additional information available

**12.5 Results of PBT and vPvB:** No additional information available

**12.6 Other adverse data:** No additional information available

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Avoid release to the environment. Disposal must be done according to official regulations. Do not dispose of the packaging without first carrying out the necessary cleaning. Refer to manufacturer/supplier for information on recovery/recycling.

## 14. TRANSPORT INFORMATION

### General

ADR  
AND

In accordance with ADR/RID/IMDG/IATA/AND  
Special provision(s) applied: 375 CARRIAGE PROHIBITED  
NOT SUBJECT

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These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

## 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.  
(deltamethrin (ISO), (S)-  $\alpha$ -cyano-3-phenoxybenzyl (1R, 3R)-3-(2, 2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate)

## Transport shipping description

### ADR/IATA/AND/RID

UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (deltamethrin (ISO), (S)-  $\alpha$ -cyano-3-phenoxybenzyl (1R, 3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate), 9, III, (-)

### IMDG

UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (deltamethrin (ISO), (S)-  $\alpha$ -cyano-3-phenoxybenzyl (1R, 3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate), 9, III, MARINE POLLUTANT

## 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

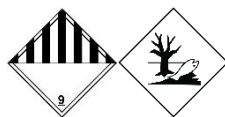
### IMDG

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

### ADR/RID/ADN/ICAO

Dangerous for the environment

### IMDG

Dangerous for the environment/Marine Pollutant

## 14.6. Special precautions for user

### Overland transport

Classification code (ADR): M7  
Special provisions (ADR): 274, 335, 375, 601  
Limited quantities (ADR): 5kg  
Excepted quantities (ADR): E1  
Packing instructions (ADR): P002, IBC08, LP02, R001  
Special packing provisions (ADR): PP12, B3  
Mixed packing provisions (ADR): MP10  
Portable tank and bulk container instructions (ADR): T1, BK1, BK2, BK3  
Portable tank and bulk container special provisions (ADR): TP33  
Tank code (ADR): SGAV, LGBV  
Vehicle for tank carriage: AT  
Transport category (ADR): 3  
Special provisions for carriage - Packages (ADR): V13  
Special provisions for carriage - Bulk (ADR): VC1, VC2  
Special provisions for carriage - Loading, unloading and handling (ADR):

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CV13

Hazard identification number (Kemler No.):

90



Orange plates:

Tunnel restriction code (ADR):

-

EAC code:

2Z

## Transport by sea

Special provisions (IMDG): 274, 335, 966, 967, 969

Packing instructions (IMDG): P002, LP02

Special packing provisions (IMDG): PP12

IBC packing instructions (IMDG): IBC08

IBC special provisions (IMDG): B3

Tank instructions (IMDG): T1, BK1, BK2, BK3

Tank special provisions (IMDG): TP33

EmS-No. (Fire): F-A

EmS-No. (Spillage): S-F

Stowage category (IMDG): A

Stowage and handling (IMDG): SW23

## Air transport

PCA Excepted quantities (IATA): E1

PCA Limited quantities (IATA): Y956

PCA limited quantity max net quantity (IATA):

30kgG

PCA packing instructions (IATA): 956

PCA max net quantity (IATA): 400kg

CAO packing instructions (IATA): 956

CAO max net quantity (IATA): 400kg

Special provisions (IATA): A97, A158, A179, A197

ERG code (IATA): 9L

## Inland waterway transport

Classification code (ADN): M7

Special provisions (ADN): 274, 335, 375, 601

Limited quantities (ADN): 5 kg

Excepted quantities (ADN): E1

Equipment required (ADN): PP, A

Number of blue cones/lights (ADN): 0

Additional requirements/Remarks (ADN): \* Only in the molten state. \*\* For carriage in bulk see also 7.1.4.1. \*\*\* Only in the case of transport in bulk.

## Rail transport

Classification code (RID): M7

Special provisions (RID): 274, 335, 375, 601

Limited quantities (RID): 5kg

Excepted quantities (RID): E1

Packing instructions (RID): P002, IBC08, LP02, R001

Special packing provisions (RID): PP12, B3

Mixed packing provisions (RID): MP10

Portable tank and bulk container instructions (RID):

T1, BK1, BK2, BK3

Portable tank and bulk container special provisions (RID):

TP33

Tank codes for RID tanks (RID): SGAV, LGBV

Transport category (RID): 3

Special provisions for carriage – Packages (RID):

W13

Special provisions for carriage – Bulk (RID):

VC1, VC2

Special provisions for carriage - Loading, unloading and handling (RID):



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CW13, CW31

Colis express (express parcels) (RID): CE11

Hazard identification number (RID): 90

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

## 15. REGULATORY INFORMATION

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

National Regulations: Refer to protective measures in Sections 7 & 8

**15.2 Chemical Safety Assessment** Refer to protective measures in Sections 7 & 8

## 16. OTHER INFORMATION

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

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Full text of H- and EUH-statements:

Acute Tox. 3 (Inhalation) Acute toxicity (inhal.), Category 3

Acute Tox. 3 (Oral) Acute toxicity (oral), Category 3

Aquatic Acute 1 Hazardous to the aquatic environment — Acute Hazard, Category 1

Aquatic Chronic 1 Hazardous to the aquatic environment — Chronic Hazard, Category 1

H301 Toxic if swallowed.

H331 Toxic 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.