

# SAFETY INFORMATION SHEET

Date of Issue: February 2004  
Revision: Dec 2020

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

**1.1 Product Identifier:** NIPPON ANT & CRAWLING INSECT KILLER

**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: 01530 510060 Email: info@vitax.co.uk

**1.4 Emergency Contact:** Tel: 01530 510060 (Office Hours)

**IRL ONLY:** In the event of emergency, call the National Poisons Information Centre, Beaumont Hospital at 01 809 2166 or 01 837 9964.

## 2. HAZARDS IDENTIFICATION

**2.1 Classification:** **Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)**  
**Physical hazards** Aerosol 1 - H222, H229  
**Health hazards** Elicitation - EUH208  
**Environmental hazards** Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

**2.2 Label Elements:** Contains 0.25% Permethrin (EC 258-067-9), 0.1% Tetramethrin (EC 231-711-6)



**Signal word:** Danger

**Hazard statements:** H229 Pressurised container: may burst if heated.  
H410 Very toxic to aquatic life with long lasting effects.  
H222 Extremely flammable aerosol.

**Precautionary Statements** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
P102 Keep out of reach of children.  
P271 Use only outdoors or in a well-ventilated area.  
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./<br>EINECS-No.  | Annex Index<br>or REACH number | Symbol(s) and Phrases  | Precautionary<br>Statements: | Concentration<br>[%] |
|--------------------|-------------------------|--------------------------------|--|------------------------------|----------------------|
| Odourless Kerosene | 926-141-6               | 01-2119456620-43               | Asp. Tox. 1 - H304   |                              | 60 - 100%            |
| Butane             | 106-97-8<br>203-448-7   | Exempt under REACH             | Flam. Gas 1 - H220<br>Press. Gas   |                              | 1 - 5%               |
| Isobutane          | 75-28-5<br>200-857-2    | Exempt under REACH             | Flam. Gas 1 - H220<br>Press. Gas   |                              |                      |
| Propane            | 74-98-6<br>200-827-9    | Exempt under REACH             | Flam. Gas 1 - H220<br>Press. Gas   |                              | 1-5%                 |
| Permethrin         | 52645-53-1<br>258-067-9 | N/A                            | Acute Tox. 4 - H302, H332<br>Skin Sens. 1 - H317<br>Aquatic Acute 1 - H400, H110<br>M factor (Acute) = 1000<br>M factor (Chronic) = 1000 |                              | 0.25%                |
| Tetramethrin       | 7696-12-0<br>231-711-6  | N/A                            | Acute tox. 4; H302<br>Carc. 2; H351<br>STOT SE2; H371<br>Aquatic Acute 1; H400   |                              | 0.1%                 |



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|  |  | Aquatic Chronic 1; H410 |  |  |
|--|--|-------------------------|--|--|

## 4. FIRST AID MEASURES

### 4.1 Description of First Aid Measures

|                            |  |
|----------------------------|--|
| <b>General information</b> | Move affected person to fresh air at once.   |
| <b>Eye contact –</b>       | Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.  |
| <b>Skin contact –</b>      | Rinse mouth thoroughly with water. DO NOT induce vomiting. Get medical attention immediately. Remove contaminated clothing immediately and wash skin with soap and water.  |
| <b>Inhalation –</b>        | If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately. |

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

Not available

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

Not available. Additional medical guidance is available to doctors from the National Poisons Information Service.

## 5. FIRE FIGHTING MEASURES

**5.1 Extinguishing Media:** Extinguish with foam, carbon dioxide, dry powder or water fog.

**5.2 Special hazards arising from substance or mixture:** Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable. Forms explosive mixtures with air. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Containers can burst violently or explode when heated, due to excessive pressure build-up.

**5.3 Advice for firefighters:** Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours. Warn firefighters that aerosols are involved.

## 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal Precautions:** Provide adequate ventilation. Use suitable respiratory protection if ventilation is inadequate. Avoid inhalation of vapours.

**6.2 Environmental precautions:** Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material.

**6.3 Methods and material for containment and cleaning up:** Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Leave small quantities to evaporate, if safe to do so. Do not allow material to enter confined spaces, due to the risk of explosion.

## 7. HANDLING & STORAGE

**7.1 Precautions for Safe Handling:** Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Do not spray on a naked flame or any incandescent material.

**7.2 Conditions for Safe Storage:** Keep away from heat, sparks and open flame. Store at moderate temperatures in dry, well ventilated area. Extremely flammable. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. **Storage class:** Flammable compressed gas storage.

**7.3 Specific end use:** Insecticide.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### 8.1 Control parameters:

|                           |  |
|---------------------------|--|
| <b>Odourless Kerosene</b> | Long-term exposure limit (8-hour TWA): OEL 1200 mg/m <sup>3</sup>  |
| <b>BUTANE</b>             | Long-term exposure limit (8-hour TWA): WEL 600 ppm<br>Short-term exposure limit (15-minute): WEL 750 ppm |
| <b>ISOBUTANE</b>          | Long-term exposure limit (8-hour TWA): WEL 800 ppm   |

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|                   |  |
|-------------------|--|
| <b>PROPANE</b>    | Short-term exposure limit (15-minute): WEL No std.<br>Long-term exposure limit (8-hour TWA): SUP ppm   |
| <b>PERMETHRIN</b> | Short-term exposure limit (15-minute): SUP ppm<br>Long-term exposure limit (8-hour TWA): 5 mg/m <sup>3</sup><br>OEL = Occupational Exposure Limit. |

WEL = Workplace Exposure Limit

## 8.2 Exposure Controls:

### Personal protective equipment:

**General protective and hygienic measures:** Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any occupational exposure limits for the product or ingredients. Do not eat, drink or smoke when using the product.

**Breathing equipment:** If ventilation is inadequate, suitable respiratory protection must be worn.

**Protection of hands:** Due to the packaging form, aerosol, risk of skin contact is small. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

Wash hands after handling. Wash promptly if skin becomes contaminated. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin.

**Eye protection:** Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

## 9. PHYSICAL & CHEMICAL PROPERTIES

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

|                     |                          |
|---------------------|--------------------------|
| Appearance          | aerosol                  |
| Odour               | organic solvent          |
| pH                  | not available            |
| Boiling point       | not available            |
| Melting point       | not available            |
| Flash point         | < -40°C                  |
| Flammability Limits | Lower: 1.8% - Upper 9.5% |
| Autoflammability    | 410-580°C                |

**9.2 Other information:** Information given is applicable to the major ingredient.

## 10. STABILITY & REACTIVITY

|  |  |
|--|--|
| <b>10.1 Reactivity:</b>                        | no data  |
| <b>10.2 Stability:</b>                         | Avoid the following conditions: Heat, sparks, flames.  |
| <b>10.3 Possibility of hazardous reactions</b> | no data  |
| <b>10.4 Conditions to Avoid:</b>               | Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.           |
| <b>10.5 Incompatible materials:</b>            | no data.   |
| <b>10.6 Hazardous Decomposition Products:</b>  | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen. |

## 11. TOXICOLOGICAL INFORMATION

|   |  |
|---|--|
| Acute toxicity:                                     |  |
| Acute Toxicity (Oral LD50)<br>OECD 420              | Odourless Kerosene > 5000 mg/kg Rat<br>Permethrin 480-554 mg/kg Rat<br>Tetramethrin > 2000 mg/kg Rat     |
| Acute Toxicity (Dermal LD50)<br>OECD 402            | Odourless Kerosene > 2000 mg/kg Rabbit<br>Permethrin > 2000 mg/kg Rat<br>Tetramethrin > 2000 mg/kg Rat   |
| Acute Toxicity (Inhalation LC50)<br>OECD 403        | Odourless Kerosene > 5000 mg/l Rat 4 hours<br>Permethrin 23.5 mg/litre Rat<br>Tetramethrin 5.63 mg/l Rat |
| Skin Corrosion/Irritation:<br>Erythema/eschar score | Odourless Kerosene No erythema (0).  |



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|   |   |
|---|---|
| Oedema score OECD 404   | Permethrin non irritant<br>Tetramethrin non irritant<br>Odourless Kerosene No oedema (0).<br>Permethrin non irritant<br>Tetramethrin non irritant   |
| Serious eye damage/irritation:  | Permethrin. Not Irritating.<br>Tetramethrin. Not Irritating.  |
| Respiratory or skin sensitisation:<br>Respiratory sensitisation   | Odourless Kerosene There is no evidence that the material can lead to respiratory hypersensitivity.   |
| Skin sensitisation<br>Buehler test: Guinea Pig<br>OECD 406  | Odourless Kerosene Not Sensitising.<br>Permethrin Sensitising to skin of Guinea pigs<br>Tetramethrin Not sensitising  |
| Germ cell mutagenicity:<br>Genotoxicity - In Vivo   | Odourless Kerosene Negative. This substance has no evidence of genotoxic properties.  |
| Chromosome aberration:<br>OECD Guideline 475  | Permethrin Non genotoxic<br>Tetramethrin Non genotoxic  |
| Carcinogenicity:<br>Carcinogenicity<br>Method equivalent to OECD 451  | Odourless Kerosene This substance has no evidence of carcinogenic properties.<br>Permethrin Non carcinogenic<br>Tetramethrin Classified Carc. Cat 2. The mechanisms are not thought relevant for humans   |
| Reproductive Toxicity:<br>Reproductive Toxicity – Fertility<br>OECD Test Guideline 421<br>Reproductive Toxicity - Development<br>Developmental toxicity:<br>Method OECD 414 | Odourless Kerosene NOAEL >3000 mg/kg/day Oral Rat<br>no evidence of toxicity to reproduction.<br><br>Odourless Kerosene NOAEL 1000 mg/kg/day Oral Rat<br>no evidence of toxicity to reproduction.<br>Permethrin Non reprotoxic/teratogenic<br>Tetramethrin Non reprotoxic/teratogenic |
| Specific target organ toxicity - repeated exposure:<br>STOT - Repeated exposure   | Odourless Kerosene<br>NOAEL 750 mg/kg Oral Rat  |
| Product<br>Inhalation   | Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.   |
| Ingestion   | May cause lung damage if swallowed. Pneumonia may be the result if vomited material containing solvents reaches the lungs.  |
| Skin contact  | Repeated exposure may cause skin dryness or cracking.   |
| Eye contact   | No specific health warnings noted.  |
| Medical Symptoms  | Contains permethrin, may cause an allergic reaction.  |

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

|   |   |
|---|---|
| Acute Toxicity – Fish<br>OECD 203                     | Odourless Kerosene LC50 96 hours > 10 mg/l Onchorhynchus mykiss (Rainbow trout)<br>Permethrin LC50 96 hours 0.145 mg/l Common Carp, Cyprinus carpio,<br>Tetramethrin LC50 (96h): 0,033 mg/l Brachydanio rerio (fish)  |
| Acute Toxicity - Aquatic Invertebrates<br>OECD 202    | Odourless Kerosene EC50 48 hours > 10 mg/l Daphnia magna<br>Permethrin EC50 48 hours : 0.320 mg/l Daphnia magna<br>Tetramethrin EC50 48 hours 0,47 mg/l Daphnia magna   |
| Acute Toxicity - Aquatic Plants                       | Odourless Kerosene Not available.<br>Permethrin E <sub>b</sub> C <sub>50</sub> (72 h) <sup>1</sup> : >0.011 mg/l, E <sub>r</sub> C <sub>50</sub> <sup>2</sup> : >0.011 mg/l Scenedesmus subspicatus (algae)<br>Tetramethrin E <sub>r</sub> C <sub>50</sub> <sup>2</sup> : 1.36 mg/l Scenedesmus subspicatus (algae) |
| Acute Toxicity – Microorganisms<br>QSAR modelled data | Odourless Kerosene EC50 72 hours 678 mg/l Activated sludge<br>Permethrin Activated sewage sludge, 3 hours : EC50: >1000 mg/l  |

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## 12.2. Persistence and degradability

|                |  |
|----------------|--|
| Degradability  | <p>Odourless Kerosene This substance is inherently biodegradable</p> <p>Permethrin exhibits DT50 values from 77 to 141 days at 12 deg C</p> <p>Does not meet vP criteria but fulfils P criteria.</p>   |
| Biodegradation | <p>Odourless Kerosene No information required. Substance is a UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.</p> <p>Permethrin is readily taken up by aquatic organisms: bio-concentration factors range from 290 to 620 for sheepshead minnows. Permethrin does not meet B or vB screening criteria.</p> <p>Tetramethrin: The substance was found to be moderately biodegradable under the test conditions within 28 days. The substance was found to be ultimate biodegradable by about 20% based on BOD measurement.</p> |

## 12.3. Bioaccumulative potential

|                       |  |
|-----------------------|--|
| Partition coefficient | <p>Odourless Kerosene No information required. Substance is a UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.</p> <p>Permethrin: BCF 290 - 620 fish</p> <p>Tetramethrin: &gt;4.09 log Kow BCF 646 fish</p> |
|-----------------------|--|

## 12.4. Mobility in soil

|           |  |
|-----------|--|
| Mobility: | <p>Leaching potential of Permethrin and its degradates showed that very little downward movement occurs in soil. Tetramethrin: The values of Koc (2045; 2754) indicate that it is immobile and remains preferentially in soil.</p> |
|-----------|--|

## 12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

## 12.6. Other adverse effects

None known.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

Do not puncture or incinerate, even when empty.

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority Containers should be thoroughly emptied before disposal because of the risk of an explosion. Empty containers must not be punctured or incinerated because of the risk of an explosion.

## 14. TRANSPORT INFORMATION

### General

This product is packed in accordance with the Limited Quantity Provisions of CDGCP2, ADR and IMDG. These provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight 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. Aerosols not so packed and labelled must show the following.

### 14.1. UN number

|                  |      |
|------------------|------|
| UN No. (ADR/RID) | 1950 |
| UN No. (IMDG)    | 1950 |
| UN No. (ICAO)    | 1950 |
| UN No. (ADN)     | 1950 |

### 14.2. UN proper shipping name

|                                |          |
|--------------------------------|----------|
| Proper shipping name (ADR/RID) | AEROSOLS |
| Proper shipping name (IMDG)    | AEROSOLS |
| Proper shipping name (ICAO)    | AEROSOLS |
| Proper shipping name (ADN)     | AEROSOLS |

### 14.3. Transport hazard class(es)

|                             |     |
|-----------------------------|-----|
| ADR/RID class               | 2.1 |
| ADR/RID classification code | 5F  |
| ADR/RID label               | 2.1 |
| IMDG class                  | 2.1 |
| ICAO class/division         | 2.1 |
| ADN class                   | 2.1 |

Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

|  |     |
|--|-----|
| Environmentally hazardous substance/marine pollutant | Yes |
|--|-----|

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## 14.6. Special precautions for user

EmS F-D, S-U  
ADR transport category 2  
Tunnel restriction code (D)

## 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:

This substance is classified and labelled in accordance with regulation 1999/45/EC, 1272/2008, the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations, 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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

### 15.2 Chemical Safety Assessment

not undertaken for this material

## 16. OTHER INFORMATION

### Reason for revision:

Replaces revision March 2020. Revision to emergency contact details.

### Hazard statements in full

EUH066 Repeated exposure may cause skin dryness or cracking.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

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.