VITAX SAFETY INFORMATION SHEET

Date of Issue: February 2004
Revision: January 2015

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

1.1 Product Identifier: NIPPON WASP NEST DESTROYER

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 Fax: 01530 510299 Email: tech@vitax.co.uk

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

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 0.28% Permethrin (EC 258-067-9), 0.11% 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./ EINECS-No.	Annex Index or REACH number	Symbol(s) and Phrases	Precautionary Statements:	Concentration [%]
Odourless Kerosene	926-141-6	01-2119456620-43	Asp. Tox. 1 - H304		10 - 30%
Butane	106-97-8 203-448-7	Exempt under REACH	Flam. Gas 1 - H220 Press. Gas		1 - 5%
EDTA tetrasodium	64-02-8 200-573-9	01-2119486762-27-xxxx	Met Corr 1 H290 Skin Irrit 2 H315 Eye Dam 1 H318 Acute Tox 4 H332		<0.1%
Isobutane	75-28-5 200-857-2	Exempt under REACH	Flam. Gas 1 - H220 Press. Gas		
Propane	74-98-6 200-827-9	Exempt under REACH	Flam. Gas 1 - H220 Press. Gas		1-5%

Permethrin	52645-53-1 258-067-9	N/A	Acute Tox. 4 - H302, H332 Skin Sens. 1 - H317 Aquatic Acute 1 - H400, H110 M factor (Acute) = 1000 M factor (Chronic) = 1000		0.28%
Tetramethrin	7696-12-0 231-711-6	N/A	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 Aquatic Acute 1 - H400, H110 M factor (Acute) = 100 M factor (Chronic) = 100		0.11%
Sodium Nitrite	7632-00-0 231-555-9	01-2119471836-27	Ox. Sol. 3 - H272 Acute Tox. 3 - H301 Aquatic Acute 1 - H400		<1%

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General information Move affected person to fresh air at once.

Eye contact – 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.

Skin contact – Rinse mouth thoroughly with water. DO NOT induce vomiting. Get medical attention immediately. Remove contaminated clothing immediately and wash skin with soap and water.

Inhalation – 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:

Odourless Kerosene	Long-term exposure limit (8-hour TWA): OEL 1200 mg/m3
BUTANE	Long-term exposure limit (8-hour TWA): WEL 600 ppm Short-term exposure limit (15-minute): WEL 750 ppm
ISOBUTANE	Long-term exposure limit (8-hour TWA): WEL 800 ppm Short-term exposure limit (15-minute): WEL No std.
PROPANE	Long-term exposure limit (8-hour TWA): SUP ppm Short-term exposure limit (15-minute): SUP ppm
PERMETHRIN	Long-term exposure limit (8-hour TWA): 5 mg/m3
SODIUM NITRITE	Long-term exposure limit (8-hour TWA): No std.

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	$< -40^{0}$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

10.1 Reactivity: no data

10.2 Stability: Avoid the following conditions: Heat, sparks, flames.

10.3 Possibility of hazardous reactions no data

10.4 Conditions to Avoid:	Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.
10.5 Incompatible materials:	no data.
10.6 Hazardous Decomposition Products:	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 - oral	
ATE oral (mg/kg)	50,000.00
Acute toxicity - inhalation	
ATE inhalation (vapours mg/l)	769.23
General information	Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.
Inhalation	Vapours in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. Unconsciousness, possibly death.
Skin contact	Skin irritation should not occur when used as recommended. Repeated exposure may cause skin dryness or cracking.
Eye contact	Vapour or spray in the eyes may cause irritation and smarting.
Acute and chronic health hazards	Arrhythmia (deviation from normal heartbeat) Narcotic effect. Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: Nausea, vomiting. Headache.
Route of entry	Inhalation
Target organs	Central nervous system Respiratory system, lungs

To the best of our knowledge physical, chemical and toxicological properties have not been fully investigated.

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. During normal use the volatility of the components and the packaging form, pressurised container, make entry into the aquatic environment unlikely, however, do not empty or discharge into drains or watercourses. Ensure container is empty before disposal to prevent contents entering watercourses.
12.1 Toxicity:	
12.2 Persistence and degradability:	no data
12.3 Bioaccumulative potential:	no data
12.4 Mobility in soil:	no data.
12.5 Results of PBT and vPvB:	not classified.
12.6 Other adverse data:	no data

13. DISPOSAL CONSIDERATIONS

Do not puncture or incinerate, even when empty.

13.1 Waste treatment methods: 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 CDGCPL2, 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
ADR, IMDG, IATA : 1950.
14.2 UN proper shipping name
ADR, IMDG, lATA: AEROSOLS (PERMETHRIN).
14.3 Transport hazard class(es)
ADR, IMDG, lATA
Class: 2.1.
14.4 Packaging Group
ADR, IMDG, lATA: Not applicable.
14.5 Environmental hazards: Marine pollutant.
14.6 Special precautions for user F-D, S-U
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: MSDS re-formatted in-line with regulation 453/2010 all sections affected.
Hazard statements in full

EUH208 Contains PERMETHRIN. May produce an allergic reaction.
H222 Extremely flammable aerosol.
H229 Pressurised container: may burst if heated
H272 May intensify fire; oxidiser.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H220 Extremely flammable gas.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H222 Extremely flammable aerosol.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H229 Pressurised container: may burst if heated
H272 May intensify fire; oxidiser.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H332 Harmful if inhaled.

H335 May cause respiratory irritation.
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.