

Date of Issue: Nov 2018

1.1 Name of Product:	NIPPON INSECT KILLER TOTAL CONTROL		
1.2 Use of the Substance/Preparation:			
1.3 Manufacturer/Distributor:	Vitax Limited, Owen Street, Coalville LE67 3DE Tel: 01530 510060 Fax: 01530 510299 Email: info@vitax.co.uk Emergency Contact: Tel: 01530 510060 (Office Hours)		
1.4			
2. HAZARDS IDENTIFICATION			
2.1 Classification:			
Physical Hazards:	Aerosol 1 H222, H229		
Health Hazards:	EUH208		
<b>Environmental Hazards:</b>	Aquatic acute 1 H400 chronic 1 H410		
2.2 Label elements	-		
Hazard Pictograms			
	SLL JL		
Signal Word	Danger		
Hazard Statements	H222 :Extremely flammable aerosol		
	H229 : Pressurised container: may burst if heated		
	H410 : Very toxic to aquatic life with long lasting effects.		
Precautionary Statements			
Prevention	P102 Keep out of reach of children.		
	P273 Avoid release to the environment		
	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.		
	P271 Use only outdoors or in a well-ventilated area.		
Response	P391 Collect spillage		
Storage	P410+P412 Protect from sunlight. Do not expose to temperatures exceeding		
-	50°C/122°F.		
Disposal	P501 : Dispose of contents/container in accordance with national regulations.		
2.3 Other hazards	EUH208 Contains PERMETHRIN. May produce an allergic reaction.		
	Not Classified as PBT/vPvB by current EU criteria.		

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS 3.2 Mixture **Formulation Type:**

Aerosol

Ingredient	Registration number	<b>CLP-classification</b>	w/w %
	CAS/ EC-number		
odourless kerosene	01-2119456620-43	EUH066 Asp Tox1 H304	50-100%
	64742-47-8		
	265-149-8		
butane	Exempt	Flam gas 1 H220	5-10%
	106-97-8	Press gas	
	203-448-7		
dimethoxymethane	01-2119664781-31-xxxx	Flam liq 2 H225	<1%
	109-87-5		
	203-714-2		
iso-butane	Exempt	Flam gas 1 H220	1-5%
	75-28-5	Pres gas	
	200-857-2		
propane	Exempt	Flam gas 1 H220	1-5%
	74-98-6	Press gas	
	200-827-9		



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I	permethrin	613-058-00-2	Acute tox. 4; H332	< 1%
		52645-53-1	Acute tox. 4; H302	
		258-067-9	Skin Sens. 1B; H317	
			Aquatic Acute 1; H400	
			Aquatic Chronic 1; H410	
			M-factor acute 100 chronic 10000	
t	tetramethrin	7696-12-0	Aquatic Acute 1; H400	< 1%
		231-711-6	Aquatic Chronic 1; H410	
			M-factor: acute 10 chronic 10	

#### 4. FIRST AID MEASURES 4.1 Description of first aid measu

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If in doubt, get medical attention promptly. Rinse mouth thoroughly with water. Remove person to fresh air and keep comfortable for
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Timbe mouth motorgany with water remove person to neon an and neep connortable for
breathing. Get medical attention.
Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur
after washing.
Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water.
Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after
washing.
First aid personnel should wear appropriate protective equipment during any rescue.
, both acute and delayed
See Section 11 for additional information on health hazards.
ttention and special treatment needed
Treat symptomatically.
<u> </u>
Foam, carbon dioxide or dry powder.
ance or mixture
Containers can burst violently or explode when heated, due to excessive pressure build-up.
ng Use water to keep fire exposed containers cool and disperse vapours. Cool containers exposed
to heat with water spray and remove them from the fire area if it can be done without risk.
URES
ment and emergency procedures
Avoid inhalation of vapours and contact with skin and eyes. Ensure suitable respiratory protection is worn during removal of spillages in confined areas.
protection is worn during removal of springes in commed areas.
Avoid discharge into drains.
t and cleaning up
Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near
spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into
containers.
For personal protection, see Section 8. See Section 11 for additional information on health
hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see
Section 13.
Kan and free hast and a set for a fame Dad and fallow months to set a set of the
Keep away from heat, sparks and open flame. Read and follow manufacturer's recommendations.
When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.
Use suitable respiratory protection if ventilation is inadequate.
Wash promptly with soap and water if skin becomes contaminated.
any incompatibilities
Do not store near heat sources or expose to high temperatures. Keep away from heat, sparks and
open flame.
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## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

## 8.1. Control parameters

**Occupational exposure limits** ODOURLESS KEROSENE Long-term exposure limit (8-hour TWA): OEL 1200 mg/m<sup>3</sup> BUTANE Long-term exposure limit (8-hour TWA): WEL 600 ppm Short-term exposure limit (15-minute): WEL 750 ppm PROPAN-2-OL Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m<sup>3</sup> 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): 500 ppm Short-term exposure limit (15-minute): 900 ppm DIMETHOXYMETHANE Long-term exposure limit (8-hour TWA): WEL 1000ppm 3160 mg/m<sup>3</sup>. Short-term exposure limit (15-minute): 125 ppm 3950 mg/m<sup>3</sup> PERMETHRIN Long-term exposure limit (8-hour TWA): 5 mg/m<sup>3</sup> OEL = Occupational Exposure Limit. WEL = Workplace Exposure Limit

#### 8.2. Exposure controls

Engineering controls	Provide adequate ventilation. Provide adequate ventilation. Avoid inhalation of vapours and
	spray/mists. Observe any occupational exposure limits for the product or ingredients.
Personal Protection	Do not eat, drink or smoke when using the product.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
Hand protection	No specific hand protection recommended.
Other skin and body protection	Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist.
Respiratory protection	No specific recommendations. If ventilation is inadequate, suitable respiratory protection must be worn.

## 9. PHYSICAL & CHEMICAL PROPERTIES

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

2.1. Information on busic physical and chemical properties		
Appearance	Aerosol.	
Colour	clear colourless liquid.	
Odour	Slight solvent.	
Odour threshold	No information available.	
рН	No information available.	
Melting point	No information available.	
Flash point	-60°C for lpg CC (Closed cup).	
Evaporation rate	No information available.	
Evaporation factor	No information available.	
Flammability (solid, gas)	No information available.	
Upper/lower flammability or explo	osive limits	
Lower flammable/explosive limit:	1.4 % (lpg)	
Upper flammable/explosive limit:	10.9 % (lpg)	
Vapour pressure	No information available.	
Vapour density	No information available.	
Relative density	0.75	
Solubility(ies)	insoluble in water.	
Partition coefficient	No information available.	
Auto-ignition temperature	365°C (based on major ingredient)	
<b>Decomposition Temperature</b>	No information available.	
Viscosity	No information available.	
Oxidising properties	No information available.	
9.2. Other information		
Other information	None.	

## **10. STABILITY & REACTIVITY**

10.1. Reactivity

10.2. Chemical stability Stability No test data specifically related to reactivity available for this product or its ingredients.

The product is stable under normal conditions of storage or use.



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10.3. Possibility of hazardous reactions 10.4. Conditions to avoid	None known. Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.		
10.5. Incompatible materials	temperatures of difec	a sumgna.	
Materials to avoid	None known. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases of vapours. Oxides of carbon. Oxides of nitrogen.		
10.6. Hazardous decomposition products			
I. TOXICOLOGICAL			
Acute toxicity:		5000 A D .	
Acute Toxicity (Oral LD50) OECD 420	Odourless Kerosene		
OECD 420	Permethrin Tetramethrin	480-554 mg/kg Rat > 2000 mg/kg Rat	
Acute Toxicity (Dermal LD50)		> 2000 mg/kg Rabbit	
OECD 402	Permethrin	> 2000 mg/kg Rat	
	Tetramethrin	> 2000 mg/kg Rat	
Acute Toxicity (Inhalation LC50)		> 5000 mg/l Rat 4 hours	
OECD 403	Permethrin	23.5 mg/litre Rat	
	Tetramethrin	5.63 mg/l Rat	
Skin Corrosion/Irritation:			
Erythema\eschar score	Odourless Kerosene Permethrin	no erythema (0). non irritant	
	Tetramethrin	non irritant	
Dedema score OECD 404	Odourless Kerosene		
	Permethrin	non irritant	
	Tetramethrin	non irritant	
Serious eye damage/irritation:	Permethrin.	Not Irritating.	
	Tetramethrin.	Not Irritating.	
Respiratory or skin sensitisation:	Odanalara Kanaana	There is a solid on a shot the material and had to manimum.	
Respiratory sensitisation	hypersensitivity.	There is no evidence that the material can lead to respiratory	
Skin sensitisation	nypersensitivity.		
Buehler test: Guinea Pig	Odourless Kerosene	Not Sensitising.	
DECD 406	Permethrin	Sensitising to skin of Guinea pigs	
	Tetramethrin	Not sensitising	
Germ cell mutagenicity:			
Genotoxicity - In Vivo Chromosome aberration:	Permethrin	Negative. This substance has no evidence of genotoxic properties. Non genotoxic	
OECD Guideline 475	Tetramethrin	Non genotoxic	
Carcinogenicity:			
Carcinogenicity	Odourless Kerosene	This substance has no evidence of carcinogenic properties.	
Method equivalent to OECD 451	Permethrin	Non carcinogenic	
Reproductive Toxicity:	Tetramethrin	Non carcinogenic.	
Reproductive Toxicity – Fertility	Odourless Kerosene	NOAEL >3000 mg/kg/day Oral Rat	
OECD Test Guideline 421		no evidence of toxicity to reproduction.	
Reproductive Toxicity - Development			
Developmental toxicity:	Odourless Kerosene	NOAEL 1000 mg/kg/day Oral Rat	
Method OECD 414		no evidence of toxicity to reproduction.	
	Permethrin	Non reprotoxic/teratogenic	
Specific target organ toxicity - repeated exp	Tetramethrin osure:	Non reprotoxic/teratogenic	
STOT - Repeated exposure	Odourless Kerosene	NOAEL 750 mg/kg Oral Rat	
Product			
Inhalation	Intentional misuse by fatal.	v deliberately concentrating and inhaling the contents can be harmful	
Ingestion	May cause lung dam	age if swallowed. Pneumonia may be the result if vomited material	
	containing solvents r		
Skin contact		nay cause skin dryness or cracking.	
Eye contact Medical Symptoms	No specific health wa	arnings noted. may cause an allergic reaction.	
meatear by inpromis	contains permeaning	may cause an anergie reaction.	

**12.1. Toxicity** Acute Toxicity – Fish

Odourless Kerosene LC50 96 hours > 10 mg/l Onchorhynchus mykiss (Rainbow trout)



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OECD 203	Permethrin LC50 96 hours 0.145 mg/l Common Carp, Cyprinus carpio,		
	Tetramethrin LC50 (96h): 0,033 mg/l Brachydanio rerio (fish)		
Acute Toxicity - Aquatic Invertebrates	Odourless Kerosene EC50 48 hours > 10 mg/l Daphnia magna		
OECD 202	Permethrin EC50 48 hours : 0.320 mg/l Daphnia magna		
A such Taniaita A suchia Dianta	Tetramethrin EC50 48 hours 0,47 mg/l Daphnia magna		
Acute Toxicity - Aquatic Plants	Odourless Keroseine Not available. Permethrin $E_bC_{50}$ (72 h) <sup>1</sup> : >0.011 mg/l, $E_rC_{50}^2$ : >0.011 mg/l Scenedesmus subspicatu		
	Permethrin $E_bC_{50}$ (72 h) <sup>1</sup> : >0.011 mg/l, $E_rC_{50}^2$ : >0.011 mg/l Scenedesmus subspicatus (algae)		
	Tetramethrin $E_rC_{50}^2$ : 1.36 mg/l Scenedesmus subspicatus (algae)		
Acute Toxicity – Microorganisms	Odourless Keroseine EC50 72 hours 678 mg/l Activated sludge		
QSAR modelled data	Permethrin Activated sewage sludge, 3 hours : EC50: >1000 mg/l		
<b>12.2. Persistence and degradability</b>	Odourlass Karosana. This substance is inherently biodegradeble		
Degradability	Odourless Kerosene This substance is inherently biodegradable Permethrin exhibits DT50 values from 77 to 141 days at 12 degC Does not meet vP criteria but		
	fulfils P criteria.		
Biodegradation	Odourless Kerosene No information required. Substance is a UVCB. Standard tests for this		
Diodograduiton	endpoint are intended for single substances and are not appropriate for this complex substance.		
	Permethrin is readily taken up by aquatic organisms: bio-concentration factors range from 290 t		
	620 for sheepshead minnows. Permethrin does not meet B or vB screening criteria.		
	Tetramethrin: The substance was found to be moderately biodegradable under the test condition		
	within 28 days. The substance was found to be ultimate biodegradable by about 20% based on		
	BOD measurement.		
12.3. Bioaccumulative potential			
Partition coefficient	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.		
	Permethrin: BCF 290 - 620 fish		
	Tetramethrin: >4.09 log Kow BCF 646 fish		
12.4. Mobility in soil			
Mobility:	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.		
12.5. Results of PBT and vPvB asse			
	Not Classified as PBT/vPvB by current EU criteria.		
12.6. Other adverse effects	None known.		
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Transport labels	
144 0 11	
14.4. Packing group 14.5. Environmental hazards	Not applicable.
Environmentally hazardous substance/n	narine 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) Annex II of MARPOL73/78 and the IBC Code
14.7. Transport in burk according to r	Not applicable.
5. REGULATORY INFORMAT	
National regulations	al regulations/legislation specific for the substance or mixture The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).
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 European Parliament and Restriction of Chemicals
	2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
15.2. Chemical safety assessment	No chemical safety assessment has been carried out.
6. OTHER INFORMATION Hazard statements in full	EUH066 Repeated exposure may cause skin dryness or cracking.
Hazaru statements in fun	H220 Extremely flammable gas.
	H222 Extremely flammable aerosol.
	H225 Highly flammable liquid and vapour.
	H229 Pressurised container: may burst if heated
	H280 Contains gas under pressure, may explode if heated. H304 May be fatal if swallowed and enters airways.
	H315 Causes skin irritation.
	H317 May cause an allergic skin reaction.
	H319 Causes serious eye irritation.
	H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.
	H410 Very toxic to aquatic life.
	H411 Very toxic to aquatic life with long lasting effects.
LEGEND:	- ADR: European Agreement concerning the carriage of Dangerous goods by Road
	<ul> <li>CAS NUMBER: Chemical Abstract Service Number</li> <li>CE50: Effective concentration (required to induce a 50% effect)</li> </ul>
	- CE NUMBER: Identifier in ESIS (European archive of existing substances)
	- CLP: EC Regulation 1272/2008
	- DNEL: Derived No Effect Level
	<ul> <li>EmS: Emergency Schedule</li> <li>GHS: Globally Harmonized System of classification and labeling of chemicals</li> </ul>
	- IATA DGR: International Air Transport Association Dangerous Goods Regulation
	- IC50: Immobilization Concentration 50%
	- IMDG: International Maritime Code for dangerous goods
	<ul> <li>IMO: International Maritime Organization</li> <li>INDEX NUMBER: Identifier in Annex VI of CLP</li> </ul>
	- LC50: Lethal Concentration 50%
	- LD50: Lethal dose 50%
	- OEL: Occupational Exposure Level
	- PBT: Persistent bioaccumulative and toxic as REACH Regulation
	- PNEC: Predicted no effect concentration
	- REACH: EC Regulation 1907/2006
	- ILv: Intestioid Limit value
	<ul> <li>PEC: Predicted environmental Concentration</li> <li>PEL: Predicted exposure level</li> <li>PNEC: Predicted no effect concentration</li> </ul>



Date of Issue: Nov 2018

- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.

- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

Disclaimer