SAFETY DATA SHEET

Date of Issue: February 2004
Revision: December 2020

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

1.1 Product Identifier: NIPPON ANT & CRAWLING INSECT KILLER RTU

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)**

Physical hazards n/a

Health hazards n/a

Environmental hazards Aquatic Chronic 1 - H410

2.2 Label Elements: Contains 0.05% cypermethrin (EC 257-842-9)

Pictogram:

Signal word: Warning

Hazard statements: H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements P501 Dispose of contents/container 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.	Annex Index or REACH number	Symbol(s) and Phrases	Precautionary Statements:	Concentration [%]
cypermethrin Cis/trans +/- 40/60	52315-07-8 257-842-9	N/A	Acute Tox. 4 - H302, 332 STOT SE 3, H335 Aquatic 1 - H400, H410 M factor (Acute) = 1000 M factor (Chronic) = 1000		0.005%

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General information If medical advice is needed, have product container or label at hand.

Eye contact – Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin contact – After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.

Inhalation – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. In all cases of doubt, or when symptoms persist, seek medical advice.

Ingestion – If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact – Redness, pain.

Skin contact – Redness. Tingling/irritation of the skin.

Inhalation – Burning sensation. Cough. Dizziness. Headache. Respiratory complaints. Nausea

Ingestion – Abdominal pain, nausea. Convulsions. Vomiting. See inhalation

4.3 Indication of immediate medical attention and special treatment needed:
Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Suitable extinguishing media- Foam. Dry extinguishing powder. Carbon dioxide (CO_2). Water fog.

Unsuitable extinguishing media:	High power water jet.

5.2 Special hazards arising from substance or mixture:

Non-flammable.

5.3 Advice for firefighters:

Precautionary measures fire:	No open flames. No smoking.
Firefighting instructions:	Evacuate and limit access. Use water spray jet to protect personnel and to cool endangered containers.
Protection during firefighting:	Wear full chemical protective clothing. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Other information:	Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. ACCIDENTAL RELEASE MEASURES

General measures:	When leaks or spills occur, only properly protected personnel should remain in the area.

6.1 Personal Precautions:

Protective equipment:	Wear suitable protective clothing, gloves and eye or face protection. In case of insufficient ventilation, wear suitable respiratory equipment.
Emergency procedures:	Evacuate area. Provide adequate ventilation to minimize dust and/or vapour concentrations. Call in an expert. Eliminate every possible source of ignition.
Emergency responders:	Protective equipment: Wear a self-contained breathing apparatus and chemical protective clothing.
6.2 Environmental precautions:	Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Notify authorities if product enters sewers or public waters.

6.3 Methods and material for containment and cleaning up:

For containment:	Prevent spreading in sewers. Impound and recover large spill by mixing it with inert granular solids.
Methods for cleaning up:	Collect spills and put it into appropriated container.
Other information:	Special danger of slipping by leaking/spilling product

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling: Handle in accordance with good industrial hygiene and safety procedures. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not allow to enter into surface water or drains. Store at room temperatures. Do no eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2 Conditions for Safe Storage: Technical measures: Earth machinery well. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
Storage conditions: Protect against direct sunlight.
Incompatible products: Strong acid. Strong bases. Oxidizing agents, strong.
Maximum storage period: 2 year(s)
Storage temperature: > 2 °C
Storage area: Keep container tightly closed in a cool, well-ventilated place.
Provide for retaining containers, eg. floor pan without outflow.
Packaging materials: Keep only in the original container. Keep locked up.

7.3 Specific end use: Insecticide.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters: n/a

8.2 Exposure Controls:

Personal protective equipment: Gloves. Gas mask. Safety glasses.

Hand protection:	Wear suitable gloves resistant to chemical penetration. NBR (Nitrile rubber). For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
Eye protection:	Face shield. Chemical goggles or safety glasses
Skin and body protection:	Skin protection appropriate to the conditions of use should be provided
Respiratory protection:	If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Environmental exposure controls: Notify authorities if product enters sewers or public waters.

Other information: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Physical state:	Liquid
Colour:	white. milky.
Odour:	Low.
Odour threshold:	No data available
pH:	5
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:	> 79 °C
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	No data available
Vapour pressure:	No data available
Relative vapour density at 20 °C:	No data available
Relative density:	No data available
Density:	0.999 g/ml (20°C)
Solubility:	Soluble in water.
Log Pow:	No data available
Viscosity, kinematic:	0,7368 mm²/s
Viscosity, dynamic:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available
Explosive limits:	No data available

9.2 Other information: No additional information available.

10. STABILITY & REACTIVITY

10.1 Reactivity: When exposed to heat, may decompose liberating hazardous gases.

10.2 Chemical stability: Stable under normal conditions

10.3 Possibility of hazardous reaction: None Under normal conditions, refer to 10.1 on reactivity.

10.4 Conditions to avoid: Protect against direct sunlight. Keep away from heat/sparks/open flames/hot surfaces - No smoking.

10.5 Incompatible materials: Strong acid. Strong bases. Strong oxidizing agents.

10.6 Hazardous decomposition products: When heated to decomposition, emits dangerous fumes. Carbon dioxide (CO_2), carbon monoxide and nitrous oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Not classified

Nippon Ant & Crawling Killer RTU

LD50 oral (mg/kg)	> 2000 mg/kg
LD50 dermal (mg/kg)	> 4000 mg/kg
LC50 inhalation rat (mg/l)	> 5 mg/l/4h

Cypermethrin cis/trans +/- 40/60 (52315-07-8)

LD50 oral (mg/kg)	500 mg/kg
LD50 dermal (mg/kg)	> 2000 mg/kg
LC50 inhalation rat (mg/l)	3.28 mg/l/4h

Irritation:	Not classified
Corrosivity:	Not classified
Sensitisation:	Not classified
Repeated dose toxicity:	Not classified
Carcinogenicity:	Not classified
Mutagenicity:	Not classified
Toxicity for reproduction:	Not classified

12. ECOLOGICAL INFORMATION

12.1 Toxicity:

Nippon Ant & Crawling Killer RTU

LC50 fish 1	3.78mg/l
EC50 daphnia 1	6 mg/l
ErC50 (algae)	188140 mg/l

Cypermethrin cis/trans +/- 40/60 (52315-07-8)

LC50 fish 1	0.0028 mg/l (96h;salmo gairdneri)
EC50 daphnia 1	0.0003 mg/l (48h; Daphnia magna)
ErC50 (algae)	>0,1 mg/l (96h; Selenastrum capricornutum)
NOEC (chronic)	0.00003 mg/l 34d; Pimephales promelas)

12.2 Persistence and Degradability: Cypermethrin cis/trans +/- (52315-07-8)
Not readily biodegradable

12.3 Bioaccumulative potential: Cypermethrin cis/trans +/- (52315-07-8)

BCF fish 1	1204 mg/l (Salmo gairdneri)
Log Pow	5.3-5.6 (25˚C)

12.4 Mobility in soil: No additional information available

12.5 PBT & vPvB Assessment: No additional information available

12.6 Other adverse effects: No additional information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: Disposal must be done according to official regulations. Dispose of this material and its container to hazardous or special waste collection point. 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). Notify authorities if product enters sewers or public waters.

14. TRANSPORT INFORMATION

General This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, 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. Materials not so packed and labelled must show the following.

In accordance with ADR/RID/ADNR/IMDG/ICAO/IATA

14.1 UN No: 3082

14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

Transport document description: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (CONTAINS Cypermethrin +/- 40/60 (52315-07-8)),9, lll, (E))

14.3 Transport hazard class(es): 9

14.4 Packing group: III

14.5 Environmental hazards: Dangerous for the environment: Yes

14.6 Special Precautions for user

Overland Transport (ADR)

Classification code:	M6
Special provisions:	274, 335, 601
Limited quantities:	5L
Excepted quantities:	E1
Packaging instructions:	P001, IBC03, LP01, R001
Special packaging provisions:	PP1
Mixed packaging provisions:	MP19

Portable tank and bulk container instructions:
T4

Portable tank and bulk container special provisions:

	TP1, TP29
Tank code (ADR):	LGBV
Vehicle for tank carriage:	AT
Transport Category (ADR)	3
Special provisions for carriage - packages	V12
Special provisions for carriage – loading, unloading and handling	CV13
LQ:	LQ07
Hazard identification number (Kemler):	90
Orange plates:	**90** **3082**
Tunnel restriction code:	E
EAC code:	•3Z

Transport by sea (IMDG)

Special provisions:	274, 335
Limited quantities:	5 L
Excepted quantities:	E1
Packaging instructions:	P001, LP01
Special packaging provisions:	PP1
IBC packing instruction:	IBC03
Tank instructions:	T4
Tank special provisions:	TP2, TP29
EmS-No. (Fire)	F-A
EmS-No. (Spillage)	S-F

Air Transport

PCA Excepted quantities:	E1
PCA Limited quantities:	Y964
PCA limited quantity max nat quantity:	30kgG
PCA Packaging instruction (IATA)	964
PCA max net quantity (IATA)	450L
Packaging instructions (IATA)	964
PCA max net quantity (IATA)	450L
Special provisions:	A97, A158
ERG code:	9L

Inland waterway transport (ADN)

Classification code:	M6
Special provisions:	274, 335, 601
Limited quantities:	5L
Excepted quantities:	E1
Carriage permitted:	T
Equipment required:	PP
No blue cones/lights:	0
Not subject to ADN:	No

Rail Transport (RID)

Classification code:	M6
Special provisions:	274, 335, 601
Limited quantities:	5L
Excepted quantities:	E1
Packaging instructions:	P001, IBC03, LP01, R001
Special packaging provisions:	PP1
Mixed packaging provisions:	MP19
Portable tank and bulk container instructions:	T4
Portable tank and bulk container special provisions:	TP1, TP29

Tank code for RID tanks:	LGBV
Transport Category:	3
Special provisions for carriage - packages	W12
Special provisions for carriage – loading, unloading and handling	CW13, CW31
Colis express (express parcels):	CE8
Hazard identification number (Kemler):	90
Carriage prohibited:	no

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific to this substance:
EU-Regulations
REACH Regulation (EC) No 1907/2006 Annex XVII restrictions.

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Cypermethrin 0.5 g/l AL
3.c. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Cypermethrin 0.5 g/l AL

Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substance
15.2 Chemical Safety Assessment not undertaken for this material

16. OTHER INFORMATION

Reason for revision: Replaces version dated March 2018. Sections 1, 16 updated
Hazard statements in full

Acute Tox.4 (inhalation)	Acute toxicity (inhalation) Category 4
AcuteTox 4. (oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the environment – Chronic Hazard Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful is swallowed
H332	Harmful is inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	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.