

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

- 1.1 Product Identifier:** NIPPON ANT & INSECT KILLER
DELTASECT 015 RTU
- 1.2 Relevant uses of the substance or mixture and uses advised against:**
Biocide
- 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 Acute 1 - H400
Aquatic Chronic 1 - H410
- 2.2 Label Elements:** Contains 0.015% deltamethrin (EC 258-256-6)

Pictogram:



- 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 at hand.
P102 - Keep out of reach of children.
P103 - Read 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, regional, national and/or international regulation.
- 2.3 Other Hazards:** No additional information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical Name	Product identifier	Classification EC 1272/2008	Concentration [%]
deltamethrin (ISO); (S)- α -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. 3 (Oral), H301 Aquatic Acute 1, H400 (M=1000000) Aquatic Chronic 1, H410 (M=1000000)	0.014%
dipropylene glycol methyl ether substance with a European Community workplace exposure limit	(EC-No.) 252-104-2 (REACH-no) 01-2119450011-60	Not classified	0.1 - 1%

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

- General information** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- Eye contact –** Wash with plenty of water (during 20 minutes minimum) with eyes wide open after taking off soft contact lenses and immediately take medical advice.
- Skin contact –** Remove contaminated clothes. After contact with skin, wash immediately and thoroughly with water and soap.
- Inhalation –** Move the affected person away from the contaminated area and into the fresh air. If not breathing, give artificial respiration. Call a doctor.
- Ingestion –** Rinse mouth. Immediately call a POISON CENTER/doctor.

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:

Suitable extinguishing media- Water spray. Dry powder. Foam. Carbon dioxide.

5.2 Special hazards arising from substance or mixture:

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

Reactivity in case of fire: Product is not explosive.

Hazardous decomposition products in case of fire:

Carbon monoxide. Nitrogen oxides. Carbon dioxide. Toxic fumes may be released.

5.3 Advice for firefighters:

Precautionary measures fire:

Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.

Firefighting instructions:

Appropriate self-contained breathing apparatus may be required. Get the package away from the fire if this can be done without risk. Prevent fire-fighting water from entering the environment.

Protection during firefighting:

Wear fire/flame resistant/retardant clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

Other information:

Do not allow material to contaminate surface water system.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions:

For non-emergency personnel

Protective equipment:

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.

Emergency procedures:

Evacuate personnel to a safe area.

Emergency responders:

Protective equipment:

Wear suitable hand, body and head protection.

6.2 Environmental precautions:

Danger of pollution of drinking water when product enters the soil. Do not allow run-off from fire-fighting to enter drains or water courses. Notify authorities if liquid enters sewers or public waters.

6.3 Methods and material for containment and cleaning up:

For containment:

Label the container and provide warning statements to prevent any contact.

Methods for cleaning up:

Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Clean spills promptly. Wash contaminated area with large amounts of water.

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling:

Additional hazards when processed:

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).

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.

7.2 Conditions for Safe Storage:

Technical measures:

Ensure adequate ventilation, especially in confined areas. Store locked up.

Storage conditions:

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 temperature:

0-30°C

Packaging materials:

Keep only in the original container in a cool, well-ventilated place away from combustible materials.

7.3 Specific end use:

Biocide.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters:

2-methylpropan-1-ol; iso-butanol (78-83-1)

United Kingdom - Occupational Exposure Limits

Local name	2-Methylpropan-1-ol
WEL TWA (mg/m ³)	154 mg/m ³
WEL TWA (ppm)	50 ppm
WEL STEL (mg/m ³)	231 mg/m ³
WEL STEL (ppm)	75 ppm

dipropylene glycol methyl ether

EU - Occupational Exposure Limits

Local name	(2-Methoxymethylethoxy)-propanol
IOELV TWA (mg/m ³)	308 mg/m ³
IOELV TWA (ppm)	50 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

United Kingdom - Occupational Exposure Limits

Local name	(2-methoxymethylethoxy) propanol
WEL TWA (mg/m ³)	308 mg/m ³
WEL TWA (ppm)	50 ppm
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.2 Exposure Controls:

Hand protection:	Chemical resistant gloves (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:	Liquid
Colour:	Cloudy.
Odour:	No data available.
Odour threshold:	No data available
pH:	No data available
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):	No data available
Vapour pressure:	No data available
Relative vapour density at 20 °C:	No data available
Relative density:	No data available
Density:	No data available
Solubility:	No data available.
Log Pow:	No data available
Viscosity, kinematic:	No data available
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:	Stable under normal conditions of use.
10.2 Chemical stability:	Stable under normal handling and storage conditions.

- 10.3 Possibility of hazardous reaction:** Stable under normal conditions of use.
10.4 Conditions to avoid: Keep away from direct sunlight/heat/high temperatures/open flame.
10.5 Incompatible materials: No additional information available.
10.6 Hazardous decomposition products: None under normal conditions of storage and use.

11. TOXICOLOGICAL INFORMATION

Acute toxicity – product	Not classified
LD50 oral (mg/kg)	50 mg/kg
LD50 dermal (mg/kg)	> 2000 mg/kg
LC50 inhalation rat (mg/l)	0.6 mg/l/4h

deltamethrin (data on active substance)

(S)- α -cyano-3-phenoxybenzyl(1R, 3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate (52918-63-5)

LD50 oral (mg/kg)	50 mg/kg
LD50 dermal (mg/kg)	> 2000 mg/kg
LC50 inhalation rat (mg/l)	3.28 mg/l/4h
Skin irritation:	Not classified
Eye irritation:	Not classified
Corrosivity:	Not classified
Sensitisation:	Not classified
Repeated dose toxicity:	Not classified
Carcinogenicity:	Not classified
Mutagenicity:	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:

Product

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.

deltamethrin (data on active substance)

(S)- α -cyano-3-phenoxybenzyl(1R, 3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate (52918-63-5)

LC50 fish 1	0.26 μ g/l (96 h, <i>Oncorhynchus mykiss</i>)
EC50 daphnia 1	0.56 μ g/l (48 h, <i>Daphnia magna</i>)
ErC50 (algae)	0.02277 mg/l (72 h, <i>Chlorella vulgaris</i>)
NOEC (chronic)	0.0000041 mg/l (<i>Daphnia magna</i>)

12.2 Persistence and Degradability:

deltamethrin (data on active substance)

(S)- α -cyano-3-phenoxybenzyl(1R, 3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate (52918-63-5)
Not readily biodegradable

12.3 Bioaccumulative potential:

deltamethrin (data on active substance)

(S)- α -cyano-3-phenoxybenzyl(1R, 3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate (52918-63-5)
Log Pow 4.6 (20°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:

Regional legislation (waste): Disposal must be done according to official regulations.

Product/Packaging disposal recommendations:

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

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.

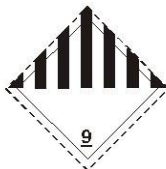
In accordance with ADR/RID/ADNR/IMDG/ICAO/IATA

14.1 UN No: 3082
14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

Transport document description:
 ADR/IATA/AND/RID UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, (deltamethrin (ISO), (S)- α -cyano-3-phenoxybenzyl (1R, 3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate), 9, III, (-)

IMDG UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, (deltamethrin (ISO), (S)- α -cyano-3-phenoxybenzyl (1R, 3R)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropanecarboxylate), 9, III, MARINE POLLUTANT

14.3 Transport hazard class(es): 9



14.4 Packing group: III

14.5 Environmental hazards:
 Dangerous for the environment: Yes
 Marine pollutant: Yes

14.6 Special Precautions for user

Overland Transport (ADR)

Classification code: M6
 Special provisions: 274, 335, 375, 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: -
 EAC code: ●3Z

Transport by sea (IMDG)

Special provisions:	274, 335, 969
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
Stowage category:	A

Air Transport

PCA Excepted quantities:	E1
PCA Limited quantities:	Y964
PCA limited quantity max net 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, A197
ERG code:	9L

Inland waterway transport (ADN)

Classification code:	M6
Special provisions:	274, 335, 375, 601
Limited quantities:	5L
Excepted quantities:	E1
Carriage permitted:	T
Equipment required:	PP
No blue cones/lights:	0

Rail Transport (RID)

Classification code:	M6
Special provisions:	274, 335, 375, 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

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

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

Other information, restriction and prohibition regulations:

according to Regulation (EU) 2015/830.

National regulations:

Refer to protective measures listed in Sections 7 and 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

Hazard statements in full

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.