



SAFETY DATA SHEET

According to Regulation (EU) 2020/878

NIPPON ANT KILLER LIQUID²

NIPPON ANT KILLER SYSTEM²

Date of Issue: Feb 2004

Revision: 03/03/2023

Revision No. 4.1

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

1.1 Product Identifier:

NIPPON ANT KILLER LIQUID²

NIPPON ANT CONTROL/KILLER SYSTEM²

1.2 Relevant uses of the substance or mixture and uses advised against:

Biocide

1.3 Details of the supplier of the safety data sheet:

GB/NI

IRL

Vitax Limited, Owen Street, Coalville LE67 3DE

Vitax (Ireland) Ltd, Block 3, Harcourt Centre, Harcourt Road,

Dublin 2, D02 A339, Ireland

Tel: +44 (0)1530 510060 Email: info@vitax.co.uk

1.4 Emergency Contact:

For the general public, in GB contact NHS 111/NHS 24 by dialling 111, in NI

contact your local GP and in RoI call 01 809 2166

For product advice, Tel: +44 (0)1530 510060 (Office Hours)

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification:

Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Physical hazards

Not classified

Health hazards

Elicitation - EUH208

Environmental hazards

Aquatic Chronic 3 - H412

2.2 Label Elements:

Contains 0.081% Spinosad (EC434-300-1)

Signal word:

None

Hazard statements:

H412 Harmful 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.

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local regulations.

2.3 Other Hazards:

EUH208 Contains 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

Contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Contains no components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical Name	CAS-No./ EINECS-No.	Annex Index or REACH number	Symbol(s) and Phrases	Concentration [%]
Spinosad	168316-95-8 / 434-300-1	603-209-00-0	Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	0.081%
1,2-Benzisothiazolin- 3-one	2634-33-5/ 220-120-9	613-088-00-6	Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1H317 / Aquatic Acute 1 H400 / Aquatic Chronic 2 H411 / EUH071 Specific concentration limit (SCL): Skin Sens. 1 H317 >= 0,05	0.01-0.03%
sodium hydroxide	215-185-5 1310-73-2	011-002-00-6	Skin Corr. 1A H314 / Eye Dam. 1 H318 / Met. Corr. 1 H290 Specific concentration limit (SCL): Skin Corr. 1A H314 >= 5 / Skin Corr.1B H314 >= 2 / Skin Irrit. 2 H315 >= 0,5 / Eye Irrit. 2 H319 >= 0,5	<0.01%

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General information

Inhalation

Remove victim immediately from source of exposure. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.

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Ingestion	Rinse mouth thoroughly. Drink plenty of water. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.
4.2. Most important symptoms and effects, both acute and delayed	
Inhalation	not a primary route of exposure.
Ingestion	low toxicity. Contains bittering agent denatonium benzoate.
Skin contact	Contains 1,2-benzisothiazolin-3-one. May produce an allergic reaction.
Eye contact	May cause transient eye irritation.
4.3 Indication of immediate medical attention and special treatment needed:	Not available.

SECTION 5. FIRE FIGHTING MEASURES

5.1. Extinguishing media	
Extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.
5.2. Special hazards arising from the substance or mixture	
Hazardous combustion products	None under normal conditions.
Unusual Fire & Explosion Hazards	Not known.
5.3. Advice for firefighters	
Special Fire Fighting Procedures	Avoid breathing fire vapours.
Protective equipment for fire-fighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures	See Section 8 of this safety data sheet. Wash hands and exposed skin after handling.
6.2. Environmental precautions	Do not discharge onto the ground or into water courses.
6.3. Methods and material for containment and cleaning up	Soak up spillage with absorbent material such as sand, transfer to suitable marked container and keep safe before disposal in accordance with local authority requirements.
6.4. Reference to other sections	None

SECTION 7. HANDLING & STORAGE

7.1. Precautions for safe handling	Avoid contact with skin and eyes.
7.2. Conditions for safe storage, including any incompatibilities	Store in tightly closed original container in a dry, cool and well-ventilated place. Keep separate from food, feedstuffs, fertilisers and other sensitive material.
Storage Class	Miscellaneous hazardous material storage.
7.3. Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
Usage Description	Biocide. Refer to product label.

SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters:	UK & Ireland
Sodium hydroxide	Short-term exposure limit (15-minute): 2 mg/m ³
SODIUM HYDROXIDE (CAS: 1310-73-2)	
DNEL	Consumer - Inhalation; Long term local effects: 1 mg/m ³ Industry - Inhalation; Long term local effects: 1 mg/m ³
8.2 Exposure Controls:	
Protective equipment	No specific personal protective equipment assigned.
Engineering measures	Provide adequate general and local exhaust ventilation.
Respiratory equipment	No specific personal protective equipment assigned.
Hand protection	No specific personal protective equipment assigned.
Eye protection	No specific personal protective equipment assigned.
Hygiene measures	Wash hands at the end of each work shift and before eating, smoking and using the toilet.



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SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Physical state :	Liquid
Colour :	amber
Odour :	honey-like odour
Odour threshold :	No data available
Melting point :	Not applicable
Freezing point :	No data available
Boiling point :	No data available
Flammability:	Not applicable
Flash point :	> 100 °C
Auto-ignition temperature :	No data available
Decomposition temperature :	No data available
pH :	7.5
Viscosity, kinematic :	No data available
Solubility :	soluble in water
Partition coefficient n-octanol/water (Log Pow) :	No data available
Vapour pressure :	No data available
Relative density :	1.25
Relative vapour density at 20 °C :	No data available
Particle size distribution	Not applicable

9.2 Other information:

Explosive properties :	No data available
Oxidising properties :	No data available
Explosion limits :	No data available
Relative evaporation rate (butylacetate=1) :	No data available

SECTION 10. STABILITY & REACTIVITY

10.1. Reactivity	Stable under normal conditions.
10.2. Chemical stability	Stable under normal temperature conditions and recommended use.
10.3. Possibility of hazardous reactions	Not known.
Hazardous Polymerisation	Will not polymerise.
10.4. Conditions to avoid	Avoid high temperatures
10.5. Incompatible materials	
Materials To Avoid	Oxidizing agents, strong acids and bases.
10.6. Hazardous decomposition products	Combustion or thermal decomposition will evolve carbon oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

spinosad:	LD50/Oral/Rat > 2000 mg/kg. LD50 rat (dermal) >5000 mg/kg.
benzisothiazolin-3-one:	LD50 rat (oral) 1221 mg/kg.
Acute oral toxicity	Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. By calculation product: LD50, Rat, male and female, > 5,000 mg/kg
Acute dermal toxicity	Prolonged skin contact is unlikely to result in absorption of harmful amounts. By calculation product: LD50, Rabbit, male and female, > 5,000 mg/kg
Acute inhalation toxicity	No adverse effects are anticipated from single exposure to mist. Excessive exposure may cause irritation to upper respiratory tract (nose and throat).
Skin corrosion/irritation	Product is not classified for skin corrosion or irritation.
Serious eye damage/eye irritation	Product is not classified for eye damage or irritation.
Respiratory or skin sensitization	Product is not classified for skin sensitization.
	No relevant information found for respiratory sensitization.
Germ cell mutagenicity	For the active ingredient(s): In vitro genetic toxicity studies were negative.
	Animal genetic toxicity studies were negative.
Carcinogenicity	For the active ingredient(s): Did not cause cancer in laboratory animals.

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Teratogenicity	For the active ingredient(s): Did not cause birth defects or other effects in the fetus even at doses which caused toxic effects in the mother.
Reproductive toxicity	For the active ingredient(s): In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.
Aspiration Hazard	Based on physical properties, not likely to be an aspiration hazard.
Specific Target Organ Systemic Toxicity (Single Exposure)	Evaluation of available data suggests that this material is not a STOT-SE toxicant.
Specific Target Organ Systemic Toxicity (Repeated Exposure)	For the active ingredient(s): In animals, Spinosad has been shown to cause vacuolization of cells in various tissues. Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use.
11.2 Information on other hazards	
11.2.1. Endocrine disrupting properties	
	Contains no components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
11.2.2 Other information	
	Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

SECTION 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity	Harmful to aquatic life with long lasting effects. Spinosad has high toxicity to aquatic organisms. EC50/96hr/Daphnia >1 mg/kg EC50/96hr/Cyprinus carpio 4.5mg/l EC50/96hr/Navicula 0.079 mg/l
12.2. Persistence and degradability	Spinosad cannot be considered readily biodegradable.
12.3. Bioaccumulative potential	Spinosyn A & D moderate (log Pow 3-5)
Bioaccumulative factor (BCF)	Spinosyn A 114, Spinosyn D 115.
12.4. Mobility in soil	Spinosad is expected to be relatively immobile in soil (Koc >5000)
12.5. Results of PBT and vPvB assessment	Spinosad and 1,2-Benzisothiazolin-3-one are not considered to be PBT or vPvB
12.6. Endocrine disrupting properties	Contains no components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7. Other adverse effects	Spinosad is not listed in Annex 1 (EC)1005/2009 for substances that deplete the ozone layer.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods	Do not contaminate surface water or drains with chemicals or used container. Product and its container can be disposed of at a suitable local authority waste site. Do not re-use empty containers. Empty containers can be disposed of in normal domestic waste.
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SECTION 14. TRANSPORT INFORMATION

14.1 UN Number	Not classified.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packaging group	Not applicable.
14.5 Environmental hazards	Not applicable.
14.6 Special precautions for user	None.
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not evaluated.

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific to this substance:	Contains no REACH substances with Annex XVII restrictions.
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15.2 Chemical Safety Assessment

Contains no substance on the REACH candidate list.
Contains no REACH Annex XIV substances.
Contains no substance subject to Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals.
Contains no substance subject to Regulation (EU) No 2019/1021 on persistent organic pollutants.
not undertaken for this material.

SECTION 16. OTHER INFORMATION

Reason for revision

Replaces version dated May 2021. All sections revised in line with Regulation (EU) 2020/878.

General information

The information contained in this Safety Data Sheet is believed to be true and correct, as of the issue date. The accuracy and completeness of this information and any recommendations, or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use for this product.

Hazard Statements in Full

Acute Tox 4 (Inhalation) Acute toxicity (inhal.), Category 4
Acute Tox 4 (Inhalation:dust,mist) Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 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
Skin Sens. 1 Skin sensitisation, Category 1
Skin Corr. 1A Skin corrosion, Category 1A
Eye Dam. 1 Eye damage, Category 1
Met. Corr. 1 Metal Corrosion, Category 1
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H312 Causes skin irritation.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H410 Very toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
EUH071 Corrosive to the respiratory tract

Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 3

Hazardous to the aquatic environment. Based on product data or assessment.

Abbreviations and acronyms

CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

DNEL = Derived No Effect Level

EC50 = Median Effective Concentration

LD50 = Median lethal dose

OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)

PNEC = Predicted No Effect Concentration

STOT = Specific Target Organ Toxicity