

SAFETY DATA SHEET

Date of Issue: February 2004
Revision: May 2021

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

1.1 Product Identifier: **NIPPON ANT KILLER LIQUID²**
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 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.

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 [%] |
|--------------------------------|----------------------------|--------------------------------|--|------------------------------|----------------------|
| Spinosad | 168316-95-8 / 434-300-1 | 01-211953743 | Aquatic Acute 1 - H400, 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 H312, Skin Sens. 1 H317, C ≥0,05%, Eye Dam. 1 H318 Aquatic Acute 1 - H400, H410 | | 0.01-0.03% |

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.

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

Not available

4.3 Indication of immediate medical attention and special treatment needed:

Not available.

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.



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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.

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

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.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters:

Spinosad Dow IHG Long-term exposure limit (8-hour TWA): 0.3 mg/m³

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.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

| | |
|-----------------------------|-------------------|
| Appearance | amber liquid |
| Odour | honey like odour. |
| pH | 7.5 |
| Boiling point | not available |
| Melting point | not available. |
| Flammability | non flammable |
| Flammability limits (% v/v) | N/A. |
| Auto flammability | N/A |
| Explosivity | N/A |
| Oxidising properties | N/A. |
| Vapour Pressure | N/A |
| Relative density | 1.29 at 20°C |
| Solubility | soluble in water. |

9.2 Other information:

None.

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.



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| 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. |

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information

Acute toxicity

| | |
|---|--|
| spinosad: | LD50/Oral/Rat > 2000 mg/kg. LD50 rat (dermal) >5000 mg/kg. |
| 20% benzisothiazolin-3-one: | LD50 rat (oral) 1221-2175 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 |
| Sensitization | Product is not classified for skin sensitization. |
| For respiratory sensitization: | No relevant information found. |
| 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. |
| Carcinogenicity | For the active ingredient(s): Did not cause cancer in laboratory animals. |
| Teratogenicity | For the active ingredient(s): Did not cause birth defects or other effects in the foetus 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. |
| Mutagenicity | For the active ingredient(s): In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative. |
| Aspiration Hazard | Based on physical properties, not likely to be an aspiration hazard. |
| 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. |

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-3one are not considered to be PBT or vPvB |
| 12.6. Other adverse effects | Spinosad is not listed in Annex 1 (EC)1005/2009 for substances that deplete the ozone layer. |

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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.

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.

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

Replaces version dated December 2020. Sections 2 and 12 updated.

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

H302 Harmful if swallowed.

H312 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.