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SAFETY DATA SHEET

SDS No.501-130 (M04-27)

NEU-75021-0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1. Product identifier

Product name: **APPLAUD 25SC, Applaud SC, Applaud Star, Hayabusa SC,***

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Insecticide for agriculture

1.3. Details of the supplier of the safety data sheet

Manufacturer

Nichino Europe Co., Ltd.

5 Pioneer Court Vision Park Cambridge CB24 9PT UK

Phone: +44-1223-855720 Facsimile: +44-1223-233119

International Contact

Nihon Nohyaku Co., Ltd.,

19-8, Kyobashi 1-Chome, Chuo-Ku, Tokyo 104-8386, JAPAN

(ENVIRONMENT SAFETY DEPT. / Phone: 81-3-6361-1426

Facsimile:81-3-6361-1451 e-mail:kankyouanzen@nichino.co.jp)

1.4. Emergency telephone number

Carechem 24 International Emergency Telephone number: *

For Europe, Middle East and Africa

Phone: +44 1273 289 451 (languages: English, Dutch, French, German, Italian, Spanish)

Further numbers and local numbers see Chapter 16

OVERSEAS DIVISION, Nihon Nohyaku Co., Ltd.

19-8, Kyobashi 1-Chome, Chuo-Ku, Tokyo 104-8386, JAPAN

Phone: 81-3-6361-1420 Facsimile: 81-3-6361-1456

(Only during office hours)

Nichino Europe Co., Ltd.

5 Pioneer Court Vision Park Cambridge CB24 9PT UK

Phone: +44-1223-855720 Facsimile: +44-1223-233119

(only during office hours)

SECTION 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aquatic Chronic 2; H411

Additional information: See SECTION 16 for full text of Hazard- and EU Hazard-statements.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard Pictogram:



Signal Word:

No signal word is used.

Hazard Statement:

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statement (Prevention):

P273 Avoid release to the environment.

Precautionary Statement (Response):

P391 Collect spillage.

Precautionary Statement (Storage):

Precautionary Statement (Disposal):

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

Supplemental Hazard Information (EU):

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

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

No data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is regulated as a mixture.

3.2. Mixtures

Active ingredient: (Z)-2-tert-butylimino-3-isopropyl-5-phenyl-1,3,5-thiadiazinan-4-one
(Common name: Buprofezin)
250.4 g/L

Hazardous ingredients:

Chemical name	CAS No.	CLP index No.	Concentration (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Buprofezin	953030-84-7	–	23.4	Aquatic Acute 1; H400, M factor = 1, Aquatic Chronic 1; H410, M factor = 1
Sulfonated aromatic polymer, sodium salt	68425-94-5 *	–	>1 - <5	Skin Irrit. 2; H315, Eye Irrit. 2; H319
1,2-Benzisothiazolin-3-one	2634-33-5	613-088-00-6	<0.03	Acute Tox. 4; H302, Skin Irrit. 2; H315, Eye Dam. 1; H318,

				Skin Sens. 1; H317, Aquatic Acute 1; H400
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CLP index No.: Index No. in part 3 of Annex VI of Regulation (EC) No. 1272/2008

See SECTION 16 for full text of Hazard- and EU Hazard-statements.

SECTION 4: FIRST-AID MEASURES

4.1. Description of first aid measures

Eye contact:	Flush eyes with plenty of water at least 15 minutes. If irritation persists, get medical attention.
Skin contact:	Remove contaminated clothing. Wash with large quantities of water and soap. Contaminated clothing should be laundered before re-use.
Ingestion:	If swallowed, rinse mouth with water, and give one or two glasses of water to drink. Keep patient at rest and obtain immediate medical aid. Do not induce vomiting.
Inhalation:	Remove individual to fresh air. Contact medical personnel if ill effects occur.

4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the SECTION 2 and SECTION 11.

4.3. Indication of any immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:	Water spray, Foam, Dry chemical powder, Carbon dioxide
Unsuitable extinguishing media:	No data available

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Combustion or thermal decomposition may evolve toxic vapours.
(CO, CO₂, NO_x, etc.)

5.3. Advice for firefighters

Special protective equipment for firefighters:	Firefighters should wear proper protective equipment.
Further information:	Avoid extinguishing media such as water, foam, and dry chemicals flow into pond, river and lake.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions:	Evacuate non-essential personnel. Wear suitable protective clothing, gloves and eye/face protection.
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6.2. Environmental precautions

Environmental precaution:	Prevent spills from entering sewers, watercourse or low areas. Washings should not be poured into drains or waterway.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Adsorb spillage onto sand, soil or any suitable adsorbent material. Transfer to a container for disposal. Wash the spillage area with water.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in the SECTION 8 and SECTION 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Use with adequate ventilation. Avoid contact with skin and eyes. Do not breathe mist or vapour. Wash face and hands thoroughly with soap and water after handling. Do not eat, drink or smoke when using.

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Not known.

Requirements for storage areas and containers

Avoid direct sunlight. Store in a cool, dry and well-ventilated place. Keep in original containers, tightly closed.

Advice on common storage

Keep away from food, drink and animal feeding stuffs and out of reach of children. Keep locked up.

7.3. Specific end use(s)

Section 1 informs about identified end-uses.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits values:

Buprofezin: 2 mg/m³ (JAPAN SOCIETY FOR OCCUPATIONAL HEALTH)

8.2 Exposure controls

Engineering controls:

If practical, use with local exhaust ventilation or adequate ventilation systems. Make available in the work area emergency shower and eyewash.

Personal protective equipment

Respiratory protection:

Avoid breathing mist or vapor. Use approved respiratory protection equipment when airborne exposure limits are exceeded.

Eye protection:

Wear chemical safety goggles.

Skin protection:

Wear suitable protective clothing and gloves to prevent skin contact. Wash contaminated skin promptly.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	Off-white suspension
Odour:	No characteristic odour
Odour threshold:	No data available
pH:	7.52 (1% aqueous dispersion)
Melting point:	No data available

Initial boiling point and boiling range:	No data available
Flash point	No flash point
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	1.06-1.08 g/mL (bulk density, 20°C)
Solubility (ies):	No data available
Partition coefficient (n-octanol/water):	No data available
Auto ignition temperature	495°C
Decomposition temperature:	No data available
Viscosity:	21 - 38 mPa·s at 40°C
Explosive properties:	Material does not present any risk of explosion.
Oxidizing properties:	No oxidizing properties

9.2. Other information

Not applicable.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

This product is stable for at least 2 years when stored in the unopened sales container under normal warehouse conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

10.4. Conditions to avoid

Excessive heat.

10.5. Incompatible materials

Not known.

10.6. Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.
See also SECTION 5.2.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

Oral:	Rat	LD ₅₀ (mg/kg)	male, female >2000
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Dermal:	Rat LD ₅₀ (mg/kg)	male, female >2000
Inhalation:	Unlikely to cause harmful effects under normal conditions of handling and use.	
Skin corrosion/irritation:	Rabbit	None irritating
Serious eye damage/irritation:	Rabbit	Slightly irritant
Respiratory or skin sensitisation:		
Respiratory sensitisation:	No data available	
Skin sensitisation:	Guinea pig	Negative
Germ cell mutagenicity:	No data available	
Carcinogenicity:	No data available	
Reproductive toxicity:	No data available	
Specific target organ toxicity (Single exposure):	No data available	
Specific target organ toxicity (Repeated exposure):	No data available	
Aspiration hazard:	No data available	

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Data on this product:

Rainbow trout	LC ₅₀ (96h)	>630 mg/L (OECD Guideline 203)
Daphnia magna	EC ₅₀ (48h)	>1000 mg/L
Algae	ErC ₅₀ (72h)	>290 mg/L (OECD Guideline 201)

12.2. Persistence and degradability

No data available for this product.

Data on buprofezin technical:

Hydrolysis:	half life 51 days/pH5, 378 days/pH7	
Photolysis:	half life 33 days in distilled water (16~31°C, natural sunlight)	

12.3. Bioaccumulative potential

No data available for this product.

Data on buprofezin technical:

BCF_k = 464 (OECD Guideline 305)

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No adverse effects are expected.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product: Product should be of disposed according to label instructions and/or local regulations. Do not dump into sewers, on the ground or into any body of water. Repealing liquid containing buprofezin should be avoided flowing into river, pond and lake.

Contaminated packaging: Dispose used container according to the local regulations.

SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/RID)

- 14.1. **UN number:** 3082
- 14.2. **UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains buprofezin)
- 14.3. **Transport hazard class (es):** 9
- 14.4. **Packing group:** III
- 14.5. **Environmental hazards:** YES
- 14.6. **Special precautions for user:**

Sea transport (IMDG)

- 14.1. **UN number:** 3082
- 14.2. **UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains buprofezin)
- 14.3. **Transport hazard class (es):** 9
- 14.4. **Packing group:** III
- 14.5. **Environmental hazards:** MARINE POLLUTANT
- 14.6. **Special precautions for user:**

Sea transport (MARPOL 73/78)*

- 14.7. **Transport in bulk according to Annex II of Marpol and the IBC Code:**

Air transport (ICAO/IATA)

- 14.1. **UN number:** 3082
- 14.2. **UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains buprofezin)
- 14.3. **Transport hazard class (es):** 9
- 14.4. **Packing group:** III
- 14.5. **Environmental hazards:** YES
- 14.6. **Special precautions for user:**

SECTION 15: REGULATORY INFORMATION

15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture**

15.2. **Chemical safety assessment**

A chemical safety assessment according to art. 14 of Regulation (EC) No. 1907/2006 is not required, because art. 15 of the same regulation applies

SECTION 16: OTHER INFORMATION

This safety data sheet is prepared in accordance with Commission Regulation (EU) 2015/830.

Indication of changes:

* Revised data or information

Text of H-Code(s) mentioned in SECTION 2 and SECTION 3 (for information only):

H302:	Harmful if swallowed.
H315:	Causes skin irritation.
H317:	May cause an allergic skin reaction.
H318:	Causes serious eye damage.
H319:	Causes serious eye 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.
EUH208:	Contains <name of sensitising substance>. May produce an allergic reaction.
EUH401:	To avoid risks to human health and the environment, comply with the instructions for use.

Further Carechem 24 International Emergency Telephone Numbers:*

France (language: English, French):	+33 1 72 11 00 03
Germany (language English, German):	+49 89 220 610 12 or toll free +49 (0)800 000 7801
Spain (language: English, Spanish):	+34 91 114 2520
Italy (language: English, Italian):	+39 02 3604 2884
Netherlands (language: English, Dutch):	+31 10 713 8195
Middle East (language English, Arabic):	+44 1273 289 454
EMEA region (language English only):	+44 1865 407 333

This version of MSDS is based on NNC-MSDS:
APPLAUD 25SC (V15) (EU-GHS) 17.5.29

The information herein is given in good faith, but not warranty. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of product. It is not applicable to unusual or non-standard uses of product, nor where instructions or recommendations are not followed.
