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SAFETY DATA SHEET

SDS No.501-163 (M18-06)

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

1.1 Identification of the substance/mixture

Product name: **APPLAUD 25SC**
(Synonym: OPLORD 25SC)

1.2 Use of the substance/mixture

Insecticide for agriculture

1.3 Company/undertaking identification

Manufacturer

Nihon Nohyaku Co., Ltd.

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Emergency telephone number

OVERSEAS DIVISION, Nihon Nohyaku Co., Ltd.

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USA Connection: Nichino America, Inc.

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Brazilian Connection: Nichino do Brasil Agroquimicos Ltda.

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Colombian Connection: Nihon Nohyaku Andica S.A.S.

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 Phone: +57 3158736741

2. HAZARD IDENTIFICATION

GHS Classification

Physical hazards

Flammable liquids	Not classified
Pyrophoric liquids	Not classified

Health hazards

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/eye irritation	Not classified
Skin sensitization	Not classified

Environmental hazards

Hazardous to the aquatic environment (acute)	Not classified
Hazardous to the aquatic environment (long-term)	Category 2

Other hazards described above are "Not applicable" or "Classification not possible".

GHS label elements

Pictogram



Signal word

No signal word is used.

Hazard statement

Toxic to aquatic life with long lasting effects

Precautionary statement

[Prevention]

- Avoid release to the environment.

[Response]

- Collect spillage.

[Storage]

[Disposal]

- Dispose of contents or container in accordance with local regulations.

Other hazards: Not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture:

Mixture

Ingredient and composition

Active ingredient:

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

Component

Ingredient	% (w/w)	CAS No.
Buprofezin	23.4	953030-84-7
Sulfonated aromatic polymer, sodium salt	>1 - <5	-
1,2-Benzisothiazolin-3-one	<0.03	2634-33-5
Surface active agent, water etc.		-

4. FIRST-AID MEASURES

Eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention

Skin contact:

Remove contaminated clothing. Wash skin with plenty of water and soap. If irritation persists, get medical attention. Contaminated clothing should be washed before reuse.

Ingestion:

If swallowed, rinse mouth with water, and give one or two glasses of water to drink. Keep patient at rest and get medical attention. Do not induce vomiting.

Inhalation:

Remove patient to fresh air, keep warm and at rest. Get medical attention.

5. FIRE-FIGHTING MEASURES

Fire-fighting procedure: Firefighters should wear proper protective equipment and self-breathing apparatus. Avoid inhalation gas and contact with skin and eyes. Avoid extinguishing media such as water and foam, to flow into pond, river and lake due to danger of acute toxicity to aquatic organisms.

Unusual fire or explosion hazard: None

Hazardous combustion products: Carbon dioxide, carbon monoxide and nitrogen oxides etc.

Extinguishing media: Water spray, Foam, Dry chemical powder, Carbon dioxide

6. ACCIDENTAL RELEASE MEASURES

Evacuate non-essential personnel. Wear proper protective equipment. Carefully adsorb spillage onto sand, soil or any suitable adsorbent material. Transfer to a container for disposal. Wash the spillage area with detergent and water. Washing must be prevented from entering surface water or drains due to danger of acute toxicity to aquatic organisms.

7. HANDLING AND STORAGE

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 the material.

Storage: Keep locked up and out of reach of children in a cool, dark and well-ventilated place. Keep in original containers tightly closed. Keep away from food, drink and animal feeding stuffs.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Exposure limits values

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

8.2 Exposure control

Engineering controls: Use with local exhaust ventilation. Make available in the work area emergency shower and eye wash.

Personal protective equipment:

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

Eye protection: Wear chemical safety goggles.

Hand, skin and body protection:

Wear suitable gloves and protective clothes. Launder contaminated clothes and clean protective equipment. Wash hand and skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white suspension

Odour: No characteristic odour

pH: 7.52 (1% aqueous dispersion)

Flash point: No flash point

Bulk density: 1.06 - 1.08 g/mL (20°C)

Auto ignition temperature:	495°C
Viscosity:	21 - 38 mPa·s at 40°C
Explosive properties:	Material does not present any risk of explosion.
Oxidizing properties:	No oxidizing properties

10. STABILITY AND REACTIVITY

Chemical stability:	This product is stable under normal storage and handling conditions
Incompatibility with other materials:	Not known
Hazardous decomposition products:	Combustion or thermal decomposition will evolve toxic and irritant vapours (CO, NO _x , SO _x etc.).
Hazardous polymerization:	Not known

11. TOXICOLOGICAL INFORMATION

Acute toxicity:		
Oral:	Rat LD ₅₀ (mg/kg)	male, female >2000 (No animals died or showed any clinical signs at a dose level of 2000 mg/kg)
Dermal:	Rat LD ₅₀ (mg/kg)	male, female >2000 (No animals died or showed any clinical signs at a dose level of 2000 mg/kg)
Inhalation (dust, mist):		
	Rat LC ₅₀ (mg/L/4h)	male, female >2.52
Skin corrosion/irritation:	Rabbit	None irritant
Serious eye damage/irritation:	Rabbit	None irritant
Respiratory sensitization:	No data available	
Skin sensitization:	Guinea pig	Negative (Buehler test)
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	

12. ECOLOGICAL INFORMATION

Aquatic organism toxicity (Acute):	Not classified	
Rainbow trout	LC ₅₀ (96h)	>630 mg/L
Bluegill	LC ₅₀ (96h)	>691 mg/L
Daphnia magna	EC ₅₀ (48h)	>67 mg/L

Algae ^{#1}	ErC ₅₀ (96h)	>290 mg/L
	NOECr (96h)	4.0 mg/L
		^{#1} <i>Pseudokirchneriella subcapitata</i>

Aquatic organism toxicity (Long-term): Category 2

This classification is estimated from the content of ingredients classified in Chronic Category 1. 16.5 percent of this product consists of ingredients of unknown toxicity.

13. DISPOSAL CONSIDERATIONS

Excess product and rinsate should be disposal of according to label instructions and/or local regulations. Dispose used container according to the local regulations. Repealing liquid containing this product should be avoided flowing into river, pond and lake due to danger of acute toxicity to aquatic organisms.

14. TRANSPORT INFORMATION

Follow the precaution indicated in the HANDLING AND STORAGE section. Confirm that the material does not leak and treat carefully not to break the packing. Follow all regulations in your country.

UN Classification: Class 9

UN Number 3082 (Environmentally hazardous substance, liquid, N.O.S. (buprofezin mixture))

Packing group III

IMDG Code: Marine pollutant

15. REGULATORY INFORMATION

Users should ensure that they comply with any relevant local, state or national legislation.

16. OTHER INFORMATION

References

1. Globally Harmonized System of Classification and Labelling of Chemicals (GHS), sixth revised edition. United Nations, 2015

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.
