



Safety Data Sheet

SDS No.:
SDS-P/WP-A/02

Applaud 50WP

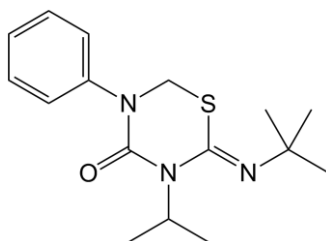
Revision: 0, 1st Issue

Page 1 of 7

Section 1: Identification of the Hazardous Chemical and of the Supplier

1.1 Product Identifier

Product Name: Buprofezin 50% WP
Trade Name: Applaud 50 WP
Active Ingredient: (EZ) -2-tert-butylimino-3-isopropyl-5-phenyl-1,3,5-thiadiazinan-4-one
CAS No.(AI): 69327-76-0
Structural Formula:



Recommended Usage: Insecticide

1.2 Supplier's Information

Address: Agricultural Chemicals (M) Sdn. Bhd.
962, Lorong Perusahaan 8
Taman Perindustrian Perai
13600 Perai , Pulau Pinang
Malaysia
Tel.: +6-04-3907988
Fax: +6-04-3905703
Web: www.agrichem.com.my
Emergency Phone: +6-04-3907988

Section 2: Hazard Identification

Classification: Eye irritation category 2
Skin irritation category 2
Specific target organ toxicity – single exposure category 3
Chronic aquatic toxicity category 3

Pictogram:



Signal Word: Warning



Safety Data Sheet

SDS No.:
SDS-P/WP-A/02

Applaud 50WP

Revision: 0, 1st Issue

Page 2 of 7

Hazard Statement:

H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H412	Harmful to aquatic life with long lasting effects

Precautionary Statement:

P264	Wash exposed body parts thoroughly after handling
P280	Wear rubber gloves, protective clothing, safety goggles and face protection
P261	Avoid breathing dust
P271	Use only outdoors or in a well ventilated area
P273	Avoid release to the environment
P312	Call a POISON CENTRE or doctor/physician if you feel unwell

Section 3: Composition and Information of the Ingredients of the Hazardous Chemical

Component	CAS No.	Weight, %	Hazard Code
Buprofezin	69327-76-0	50%	H412
Surfactant 1	-	< 5%	H302, H315, H318
Carrier 1	-	< 40%	H315, H335
Carrier 2	-	< 10%	H319
Carrier 3	-	Balance	H319

Section 4: First-aid Measures

Call a POISON CENTER or doctor/physician if you feel unwell.

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
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 advice/attention.
Ingestion:	DO NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.
Symptoms:	No data available
Notes to Physician:	No data available



Safety Data Sheet

SDS No.:
SDS-P/WP-A/02

Applaud 50WP

Revision: 0, 1st Issue

Page 3 of 7

Section 5: Fire-fighting Measures

Suitable Extinguishing Media: Water, carbon dioxide (CO₂), chemical foam, dry chemical
Specific Hazard During Fire: Evolves NO_x and CO_x.
Special Protective Equipment: Fire fighters should wear full-faced self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

Personal Precautions: Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Environmental Precautions: Avoid release to the environment.
Method for Cleaning Up: Wear protective clothing as indicated in Section 8. Evacuate non essential personnel. Collect the spill into waste container for disposal. Wash the contaminated area with a little water and detergent. Adsorb with inert material such as clay or earth. Collect into the same container for disposal. Prevent the spillage from entering local drainage system.

Section 7: Handling and Storage

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe dust. Avoid release to the environment.
Conditions for Safe Storage: Store in a well ventilated place. Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces - No smoking.
Incompatibles: None known.

Section 8: Exposure Control and Personal Protection

Exposure Limit:

Source	Component	CAS No.	Limit	
JAIH	Buprofezin	69327-76-0	2mg/m ³	
USA OSHA	Carrier 1	-	PEL TWA	5mg/m ³
	Carrier 2	-	TWA	10mg/m ³
OSHA	Carrier 2	-	STEL-TWA	6mg/m ³ (<1%)
ACGIH	Carrier 2	-	STEL-TWA	10mg/m ³ (<1%)
NOISH	Carrier 2	-	STEL-TWA	6mg/m ³ (10hrs)
OSHA	Carrier 3	-	TWA total particulate	15mg/m ³



Safety Data Sheet

SDS No.:
SDS-P/WP-A/02

Applaud 50WP

Revision: 0, 1st Issue

Page 4 of 7

OSHA	Carrier 3		TWA respirable fraction	5mg/m ³
ACGIH TLV	Carrier 3		TWA respirable dust	2mg/m ³
NIOSH REL	Carrier 3		TWA total particulate	10mg/m ³
NIOSH REL	Carrier 3		TWA respirable fraction	5mg/m ³

Engineering Control: Local exhaust ventilation
Individual Protection Measure: Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe dust.
Personal Protective Equipment:
Eye Protection: Protective goggles
Skin Protection: Rubber gloves and boots
Respiratory Protection: Dust mask or respirator

Section 9: Physical and Chemical Properties

Appearance: Off-white powder
Odour: Characteristic odour
Odour Threshold: No data available
pH: > 8
Melting/Freezing Point: No data available
Initial Boiling Point: 104.5-105.5°C (Buprofezin)
Boiling Range: No data available
Flash Point: Not applicable
Evaporation Rate: No data available
Flammability: Not applicable
Upper Flammability Limit: Not applicable
Lower Flammability Limit: Not applicable
Vapour Pressure: 4.2×10^{-5} Pa at 20°C (Buprofezin)
Vapour Density: No data available
Relative Density: 0.3 – 0.5g/ml (Bulk Density)
Solubility in Water: (Buprofezin)
0.9 mg/l in water
240 g/l in acetone
520 g/l in chloroform
Partition Coefficient P_{o/w}: 4.8 (Buprofezin)
Auto-ignition Temperature: Not inflammable
Decomposition Temperature: No data available
Viscosity: Not applicable

Section 10: Stability and Reactivity

Reactivity: Combustion evolves NO_x and CO_x.
Chemical Stability: The material is stable under normal storage condition.
Hazardous Reaction: No data available.



Safety Data Sheet

SDS No.:
SDS-P/WP-A/02

Applaud 50WP

Revision: 0, 1st Issue

Page 5 of 7

Condition to Avoid: Direct sunlight.
Incompatible Material: None known.
Hazardous Decomposition Product: No data available.

Section 11: Toxicological Information

11.1 Acute Toxicity

Component: Buprofezin		
Ingestion, Oral LD ₅₀ :		
	Rat (female)	2355mg/kg
	Rat (male)	2198mg/kg
Skin Contact, Dermal LD ₅₀ :		
	Rat (male / female)	>5000mg/kg
Inhalation, LC ₅₀ :		
	Rat (male / female)	> 4.57 mg/L (4 hours)
Component: Surfactant 1		
Ingestion, Oral LD ₅₀ :		
	Rat	≥1400mg/kg

11.2 Chronic Effect from Short and Long Term Exposure

Skin Contact: Causes skin irritation
Eye Contact: Causes serious eye irritation
Inhalation: May cause respiratory irritation
Ingestion: No data available
Carcinogenicity: No data available
Mutagenicity: No data available
Teratogenicity: No data available

11.3 Symptoms No data available

Section 12: Ecological Information

Ecotoxicity:

Component: Buprofezin		
Acute Toxicity:		
	Bluegill sunfish, LC ₅₀ , 96hr	>0.33mg/L
	Daphnia EC ₅₀ , 48 hr	>0.42mg/L
	Algae EbC ₅₀ , 72 hr	49mg/L

Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effect: No data available



Safety Data Sheet

SDS No.:
SDS-P/WP-A/02

Applaud 50WP

Revision: 0, 1st Issue
Page 6 of 7

Section 13: Disposal Information

Dispose of contents/container to Kualiti Alam / authorized body by DOE.


Section 14: Transportation Information

Land (ADR/RID)	
Proper Shipping Name	Pesticide, Solid, Toxic, N.O.S.
Hazard Class	6.1
Hazchem Code	-
UN number	2588
Packing Group	III
Label / Mark	6
Sea (IMDG)	
Proper Shipping Name	Pesticide, Solid, Toxic, N.O.S.
Hazard Class	6.1
UN Number	2588
Packing Group	III
Marine Pollutant	-
Label	6
Transport Document Name	-
Air (IATA)	
Proper Shipping Name	Pesticide, Solid, Toxic, N.O.S.
Hazard Class	6.1
UN number	2588
Packing Group	III
Label / Mark	6
Transport Document Name	-

Section 15: Regulatory Information

Classification: Eye irritation category 2
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Specific target organ toxicity – single exposure category 3
Chronic aquatic toxicity category 3

Signal Word: Warning

	Safety Data Sheet	SDS No.: SDS-P/WP-A/02
		Revision: 0, 1 st Issue
	Applaud 50WP	Page 7 of 7

Pictogram:



Pesticides Act: Class III
Classification: Harmful

Section 16: Other Information

Date of Preparation: 21 October 2015
Date of Revision: -
Reference Document: ICOP on Chemicals Classification and Hazard Communication 2014
GHS Purple Book
MSDS

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.