



Safety Data Sheet

SDS No.:
SDS-P/L-L/01

Lanmertin

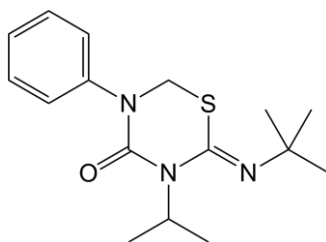
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Section 1: Identification of the Hazardous Chemical and of the Supplier

1.1 Product Identifier

Product Name: Buprofezin 25% SC
Trade Name: Lanmertin
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: Specific target organ toxicity – repeated exposure category 2
Chronic aquatic toxicity category 3

Pictogram:



Signal Word: Warning

Hazard Statement:
H373
May cause damage to organs through prolonged and repeated exposure



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H412

Harmful to aquatic life with long lasting effects

Precautionary Statement:

P260

Do not breathe vapours

P273

Avoid release to the environment

P314

Get medical advice/attention if you feel unwell

P501

Dispose of contents/containers to Kualiti Alam or other DoE authorized party

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

Component	CAS No.	Weight, %	Hazard Code
Buprofezin	69327-76-0	25%	H412
Stabiizer	-	< 15%	H373
Preservative 2	-	< 1%	H315, H318, H317, H412

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

Section 5: Fire-fighting Measures

Suitable Extinguishing Media:

Carbon dioxide (CO₂), chemical foam, dry chemical, aqueous film forming foam.

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.



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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. Absorb spills with inert material such as clay, sand, earth, sawdust etc. and collect in a drum. Cover up the contaminated area with household detergent and small amount of water. Brush the slurry and spread inert absorbents on the slurry liquid and collect the absorbed material in a drum. Seal drum and dispose of. Do not contaminate water resources.

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 vapours. 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	
US (WEEL)	Stabilizer	-	PEL TWA	5mg/m ³
ACGIH TLV	Preservative	-	Not listed	

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 vapours.

Personal Protective Equipment:

Eye Protection: Protective goggles

Skin Protection: Rubber gloves and boots

Respiratory Protection: Respirator



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Section 9: Physical and Chemical Properties

Appearance:	Off-white viscous liquid
Odour:	Characteristic odour
Odour Threshold:	No data
pH:	5 - 8
Melting/Freezing Point:	No data
Initial Boiling Point:	104.5-105.5°C (Buprofezin)
Boiling Range:	No data
Flash Point:	Not applicable
Evaporation Rate:	No data
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
Relative Density:	1.05g/ml
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
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
Condition to Avoid:	Direct sunlight, excessive heat
Incompatible Material:	None known.
Hazardous Decomposition Product:	No data

Section 11: Toxicological Information

11.1 Acute Toxicity

Component: Buprofezin		
Ingestion, Oral LD_{50} :		
	Rat (female)	2355mg/kg
	Rat (male)	2198mg/kg



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Skin Contact, Dermal LD ₅₀ :		
	Rat (male / female)	>5000mg/kg
Inhalation, LC ₅₀ :		
	Rat (male / female)	> 4.57 mg/L (4 hours)
Component: Stabilizer		
Ingestion, Oral LD ₅₀ :		
	Rat	12565mg/kg
Skin Contact, Dermal LD ₅₀ :		
	Rabbit	11980mg/kg
Component: Preservative		
Ingestion, Oral LD ₅₀ :		
	Mouse	3200mg/kg

11.2 Chronic Effect from Short and Long Term Exposure

Skin Contact:	Not classified as skin irritation
Eye Contact:	Not classified as eye irritation
Inhalation:	Not classified as 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
Component: Stabilizer		
Acute Toxicity:		
	Fathead minnow, LC ₅₀ , 96hr	75,200mg/L
	Water flea, EC ₅₀ , 24hr	> 10000mg/L
Component: Preservative		
Acute Toxicity:		
	<i>Oryzias latipes</i> , LC ₅₀ , 96hr	12.2mg/L

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



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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, Liquid, Toxic, N.O.S.
Hazard Class	6.1
Hazchem Code	-
UN number	2902
Packing Group	III
Label / Mark	6
Sea (IMDG)	
Proper Shipping Name	Pesticide, Liquid, Toxic, N.O.S.
Hazard Class	6.1
UN Number	2902
Packing Group	III
Marine Pollutant	-
Label	6
Transport Document Name	-
Air (IATA)	
Proper Shipping Name	Pesticide, Liquid, Toxic, N.O.S.
Hazard Class	6.1
UN number	2902
Packing Group	III
Label / Mark	6
Transport Document Name	-

Section 15: Regulatory Information

Classification: Specific target organ toxicity – repeated exposure category 2
Chronic aquatic toxicity category 3

Signal Word: Warning

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Pictogram:



Pesticides Act:
Classification:

Class III
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.