



Safety Data Sheet

SDS No.:
SDS-P/D-S/01

Sogatox-M

Revision: 0, 1st Issue

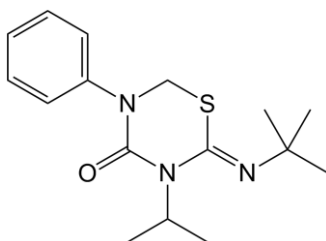
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Section 1: Identification of the Hazardous Chemical and of the Supplier

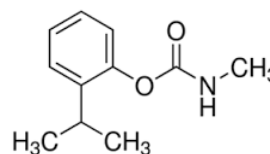
1.1 Product Identifier

Product Name: Buprofezin 1% + Isoprocarb 2% Dust
Trade Name: Sogatox-M
Active Ingredient: (EZ) -2-tert-butylimino-3-isopropyl-5-phenyl-1,3,5-thiadiazinan-4-one (Buprofezin)
2-isopropylphenyl methylcarbamate (Isoprocarb)
CAS No.(AI): 69327-76-0 (Buprofezin)
2631-40-5 (Isoprocarb)

Structural Formula:



Buprofezin



Isoprocarb

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: Skin irritation category 2
Eye irritation category 2
Specific target organ toxicity – single exposure category 3
Acute aquatic toxicity category 1
Chronic aquatic toxicity category 1

Pictogram:





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Signal Word: Warning

Hazard Statement:

H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H400 Very toxic to aquatic life
H410 Very toxic 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	1%	H412
Isoprocarb	2631-40-5	2%	H302, H400, H410
Stabilizer	-	< 1%	H302
Carrier 1	-	< 1%	H319
Carrier 2	-	< 50%	H319
Carrier 3	-	Balance	H315, H335

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: Please refer Section 11.

Notes to Physician: No data available.



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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 away from heat/sparks/open flames/hot surfaces - No smoking. Keep container tightly closed.
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	
	Carrier 1	-	TWA	10mg/m ³
OSHA	Carrier 1	-	STEL-TWA	6mg/m ³ (<1%)
ACGIH	Carrier 1	-	STEL-TWA	10mg/m ³ (<1%)
NOISH	Carrier 1	-	STEL-TWA	6mg/m ³ (10hrs)
OSHA	Carrier 2	-	TWA total particulate	15mg/m ³
OSHA	Carrier 2	-	TWA respirable fraction	5mg/m ³
ACGIH TLV	Carrier 2	-	TWA respirable dust	2mg/m ³
NIOSH REL	Carrier 2	-	TWA total particulate	10mg/m ³



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NIOSH REL	Carrier 2		TWA respirable fraction	5mg/m ³
USA OSHA	Carrier 3	-	PEL TWA	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
pH: 8
Melting/Freezing Point: 88 – 93°C (Isoprocarb)
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 x 10⁻⁵ Pa at 20°C (Buprofezin)
Vapour Density: No data
Relative Density: 0.7g/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: No data
Decomposition Temperature: No data
Viscosity: Not applicable

Section 10: Stability and Reactivity

Reactivity: Evolves NO_x and CO_x upon combustion
Chemical Stability: The material is stable under normal storage condition
Hazardous Reaction: No data
Condition to Avoid: Direct sunlight



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Incompatible Material: Strong oxidizing agents
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
Skin Contact, Dermal LD ₅₀ :		
	Rat (male / female)	> 5000mg/kg
Inhalation, LC ₅₀ :		
	Rat (male / female)	> 4.57 mg/L (4 hours)
Component: Isoprocarb		
Ingestion, oral LD ₅₀		
	Rat	450mg/kg
Dermal, LD ₅₀		
	Rabbit	10,250mg/kg
Inhalation, LC ₅₀		
	Rat, 4hr	> 500mg/m ³

11.2 Chronic Effect from Short and Long Term Exposure

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

11.3 Symptoms

Isoprocarb: Cholinesterase inhibitors can cause heavy salivation and secretion in the lungs, lachrymation, blurred vision, involuntary defecation, diarrhoea, tremor, ataxia, sweating, hypothermia, lowered heart rate, abd/or a fall in blood pressure as a result of their action at cholinergic nerve sites, headache, nausea, vomiting, dizziness, drowsiness, confusion, weakness, muscle cramps/spasms, change in pupil size, fever, seizures, incoordination.



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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: Isoprocarb

Acute Toxicity

<i>Cyprinus carpio</i> , LC ₅₀ , 96 hr	32mg/L
Daphnia magna, EC ₅₀ , 0.5hr	0.009mg/L

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available


Other Adverse Effect: No data available

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	-

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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: Skin irritation category 2
 Eye irritation category 2
 Specific target organ toxicity – single exposure category 3
 Acute aquatic toxicity category 1
 Chronic aquatic toxicity category 1

Signal Word: Warning
 Pictogram:



Pesticides Act: Class IV
 Classification: -

Section 16: Other Information

Date of Preparation: 6 November 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.