



# Safety Data Sheet

SDS No.:  
SDS-P/G-S/03

Siputox

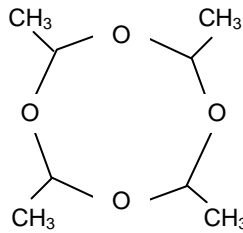
Revision: 0, 1<sup>st</sup> Issue

Page 1 of 7

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

### 1.1 Product Identifier

Product Name: Metaldehyde 5% Extruded Granule  
Trade Name: Siputox  
Active Ingredient: 2,4,6,8-tetramethyl-1,3,5,7-tetroxocane  
CAS No.(AI): 108-62-3  
Structural Formula:



Recommended Usage: Molluscicide

### 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](http://www.agrichem.com.my)  
Emergency Phone: +6-04-3907988

## Section 2: Hazard Identification


Classification: Specific Target Organ Toxicity-Repeated Exposure, category 2

Pictogram:



Signal Word: Warning

Hazard Statement:  
H373 May cause damage to organs through prolonged or repeat exposure

	<b>Safety Data Sheet</b>	SDS No.: SDS-P/G-S/03
	Siputox	Revision: 0, 1 <sup>st</sup> Issue
		Page 2 of 7

**Precautionary Statement:**

P260	Do not breathe dust
P314	Get medical advice/attention if you feel unwell

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

Component	CAS No.	Weight, %	Hazard Code
Metaldehyde Technical	108-62-3	5	H228, H301
Colouring agent	-	<5	H315, H318, H335, H372
Preservative	-	<5	H319
Carrier	-	<50	H319

**Section 4: First-aid Measures**

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.
Skin Contact:	Remove all contaminated clothing. Wash with plenty of soap and water. Get medical advice/attention.
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:	Rinse mouth. Get immediate medical advice/attention.
Symptoms:	No data available.
Notes to Physician:	No data available.

**Section 5: Fire-fighting Measures**

Suitable Extinguishing Media:	Carbon dioxide (CO <sub>2</sub> ), chemical foam, dry chemical.
Specific Hazard During Fire:	No data available.
Special Protective Equipment:	Fire fighters should wear full-faced self contained breathing apparatus and protective clothing.

**Section 6: Accidental Release Measures**

Personal Precautions:	Wear protective gloves/protective clothing/eye protection/face protection.
Environmental Precautions:	Avoid release to the environment.



# Safety Data Sheet

SDS No.:  
SDS-P/G-S/03

Siputox

Revision: 0, 1<sup>st</sup> Issue

Page 3 of 7

Method for Cleaning Up: Evacuate non essential personnel. Ventilate area. Collect the spill into waste container for disposal. Wash the contaminated area with a little water and detergent. Absorb with inert material such as clay or earth. Collect into the same container for disposal.

## Section 7: Handling and Storage

Precautions for Safe Handling: Wear protective gloves, protective clothing and face protection. Wash skin thoroughly after handling. Avoid breathing dust. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Conditions for Safe Storage: Store in a well-ventilated place. Keep container tightly closed.

Incompatibles: Acids and heating cause depolymerisation to acetaldehyde and paraldehyde.

## Section 8: Exposure Control and Personal Protection

Exposure Limit:

Source	Component	CAS No.	Limit	
ACGIH	Colouring agent	-	TLV-TWA	5 mg/m <sup>3</sup>
OSHA Permissible Exposure Limit (PEL)	Carrier	-	TWA	15 mg/m <sup>3</sup> Total Particulate
OSHA Permissible Exposure Limit (PEL)	Carrier	-	TWA	5 mg/m <sup>3</sup> Respirable Fraction
ACGIH (TLV)	Carrier	-	TWA	2 mg/m <sup>3</sup> for respirable dust
NIOSH (REL)	Carrier	-	TWA	10 mg/m <sup>3</sup> Total Particulate
NIOSH (REL)	Carrier	-	TWA	5 mg/m <sup>3</sup> Respirable Fraction

Engineering Control: General ventilation or local exhaust ventilation.

Individual Protection Measure: Wash hands thoroughly after handling. Avoid breathing dust. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area.

Personal Protective Equipment:

Eye Protection: Wear eye protection if needed.

Skin Protection: Wear protective gloves and protective clothing.

Respiratory Protection: Wear face protection, pesticide respiratory masks.



# Safety Data Sheet

SDS No.:  
SDS-P/G-S/03

Siputox

Revision: 0, 1<sup>st</sup> Issue

Page 4 of 7

## Section 9: Physical and Chemical Properties

Appearance:	Light reddish-brown extruded granule
Odour:	Characteristic odour
Odour Threshold:	No data available
pH:	No data available
Melting/Freezing Point:	191°C (Technical)
Initial Boiling Point:	Not applicable
Boiling Range:	Not applicable
Flash Point:	50 - 55°C, closed cup (Technical)
Evaporation Rate:	No data available
Auto-Flammability:	>400°C (Technical) (Method:self-ignition temperature for solids)
Upper Flammability Limit:	No data available
Lower Flammability Limit:	No data available
Vapour Pressure:	6.6 Pa (25°C) (Technical)
Vapour Density:	No data available
Relative Density:	No data available
Solubility in Water:	Practically insoluble in water and common organic solvent
Partition Coefficient P <sub>o/w</sub> :	0.12 (20°C) (Technical)
Auto-ignition Temperature:	>365°C (Technical)
Decomposition Temperature:	No data available
Burning Number:	Very rapid combustion with flame propagation (20°C), Method: Source of ignition: glowing platinum wire, approx. 1000°C (Technical)
Dust Explosion Class:	Strong dust explosion, indicator 2 -Method:Modified Hartmann Tube (Technical)

## Section 10: Stability and Reactivity

Reactivity:	Stable under recommended storage conditions.
Chemical Stability:	Stable under normal conditions.
Hazardous Reaction:	No data available.
Condition to Avoid:	Direct sunlight, heat and extreme temperature.
Incompatible Material:	Acids and heating cause depolymerisation to acetaldehyde and paraldehyde.
Hazardous Decomposition Product:	Acetaldehyde and paraldehyde.



# Safety Data Sheet

SDS No.:  
SDS-P/G-S/03

Siputox

Revision: 0, 1<sup>st</sup> Issue

Page 5 of 7

## Section 11: Toxicological Information

### 11.1 Acute Toxicity

Oral LD <sub>50</sub> :		
	Rat (female)	5000 mg/kg
Dermal LD <sub>50</sub> :		
	Rat (male & female)	>2000 mg/kg
Inhalation, LC <sub>50</sub> :		More than maximum attainable concentration (MAC) of 3.03 mg/l
(Rat, male & female)		
*Could not be classified in a GHS category since it could not be determined whether the LC <sub>50</sub> lies between the MAC (3.03mg/l) & 5.00mg/l or is more than 5.00mg/l		

### 11.2 Chronic Effect from Short and Long Term Exposure

Skin Contact:	Not irritant (Rabbit, male) Not sensitizer (Guinea pig, male & female)
Eye Contact:	Not irritant (Rabbit, female)
Germ Cell Mutagenicity:	No data available.
Carcinogenicity:	No data available.
Reproductive Toxicity:	No data available.
Specific Target Organ Toxicity - Repeated Exposure:	May cause damage to organs through prolonged or repeated exposure.

### 11.3 Symptoms

No data available.

## Section 12: Ecological Information

### Ecotoxicity:

Component: Metaldehyde Technical

Fish Toxicity, LC <sub>50</sub> :		
	Rainbow trout, <i>Oncorhynchus mykiss</i> (96h)	75 mg/l
Fish Toxicity, NOEC:		
	Fathead minnow, <i>Pimephales promelas</i> (33d, early-life stage)	8.9 mg/l
Aquatic Toxicity, EC <sub>50</sub> :		
	Water flea, <i>Daphnia magna</i> (48h)	>90 mg/l
	Algae, <i>Desmodesmus subspicatus</i> (72h, growth inhibition)	>200 mg/l
	Bacteria, <i>Activated sludge</i> (3h, respiration inhibition)	>1000 mg/l
Aquatic Toxicity, NOEC:		
	Water flea, <i>Daphnia magna</i> (21d, reproduction test)	90 mg/l



# Safety Data Sheet

SDS No.:  
SDS-P/G-S/03

Siputox

Revision: 0, 1<sup>st</sup> Issue

Page 6 of 7

Component: Colouring agent		
Fish Toxicity, LC <sub>50</sub> :		
Fathead minnow, <i>Pimephales promelas</i> (96h)	484 mg/l	

Persistence and Degradability: 2.8%, respirometer test, 28 – not readily biodegradable (Technical)  
6%, Zahn-Wellens test (Technical)

Bioaccumulative Potential: BCF 11 – does not bioaccumulate(Technical)  
(28d, Bluegill sunfish, *Lepomis macrochirus*)

Mobility in Soil: No data available.


Other Adverse Effect: No data available.

## Section 13: Disposal Information

Dispose of contents/container to Kualiti Alam or in accordance to local regulation.

## 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	-

	<b>Safety Data Sheet</b>	SDS No.: SDS-P/G-S/03
	Siputox	Revision: 0, 1 <sup>st</sup> Issue
		Page 7 of 7

### Section 15: Regulatory Information

Classification: Specific Target Organ Toxicity-Repeated Exposure, category 2

Signal Word: Warning

Pictogram:



Pesticides Act: Class IV

Classification: -

### Section 16: Other Information

Date of Preparation: 25 November 2015

Date of Revision: -

Reference Document: ICOP on Chemicals Classification and Hazard Communication 2014  
GHS Purple Book

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.