



Safety Data Sheet

SDS No.:
SDS-P/G-M/01

Mostox

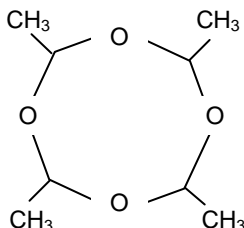
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Section 1: Identification of the Hazardous Chemical and of the Supplier

1.1 Product Identifier

Product Name: Metaldehyde 5% Sand Coated Granule
Trade Name: Mostox
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
Emergency Phone: +6-04-3907988

Section 2: Hazard Identification

Classification: Carcinogenicity, category 1a
Specific Target Organ Toxicity-Single Exposure, category 3
Specific Target Organ Toxicity-Repeated Exposure, category 2

Pictogram:



Signal Word: Danger

Hazard Statement:
H335 May cause respiratory irritation



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H350 May cause cancer
H373 May cause damage to organs through prolonged or repeat exposure

Precautionary Statement:

P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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

Component	CAS No.	Weight, %	Hazard Code
Metaldehyde	108-62-3	5	H228, H301
Preservative	-	<5	H315, H317, H318, H412
Carrier	-	>70	H335, H350, H373

Section 4: First-aid Measures

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

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin Contact: Remove all contaminated clothing. Wash with plenty of soap and water. Get medical advice/attention if you feel unwell.
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 medical advice/attention if you feel unwell.
Symptoms: Refer to Section 11: Toxicological Information.
Notes to Physician: No data available.

Section 5: Fire-fighting Measures

Suitable Extinguishing Media: Carbon dioxide (CO₂), 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.



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Section 6: Accidental Release Measures

Personal Precautions: Wear protective gloves/protective clothing/eye protection/face protection.

Environmental Precautions: Avoid release to the environment.

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: No data available.

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.

Section 9: Physical and Chemical Properties

Appearance: Greenish 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



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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 _{o/w} :	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.

Section 11: Toxicological Information

11.1 Acute Toxicity

Component: Metaldehyde Technical		
Oral LD ₅₀ :		
	Rat	283 mg/kg
Skin Contact, Dermal LD ₅₀ :		
	Rat (24h)	>5000 mg/kg
Inhalation, LC ₅₀ :		20 mg/l

11.2 Chronic Effect from Short and Long Term Exposure

Skin Contact:	Not classified as irritant and sensitizing.
Eye Contact:	Not classified as irritant.
Germ Cell Mutagenicity:	No data available.
Carcinogenicity:	May cause cancer.
Reproductive Toxicity:	No data available.



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Specific Target Organ Toxicity -
Single Exposure: May cause respiratory irritation (respiratory tract irritation).
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 ₅₀ :			
	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 ₅₀ :			
	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	
Component: Preservative			
Aquatic Toxicity, LC ₅₀ :			
	<i>Oryzias latipes</i> (96h)	12.2 mg/l	

Persistence and Degradability: 2.8%, respirometer test – 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.



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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:

Carcinogenicity, category 1a

Specific Target Organ Toxicity-Single Exposure, category 3

Specific Target Organ Toxicity-Repeated Exposure, category 2

Signal Word:

Danger

Pictogram:




Pesticides Act:

Class IV

Classification:

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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