



Safety Data Sheet

SDS No.:
SDS-IM/FG-N/03

Nominee-M

Revision: 0, 1st Issue

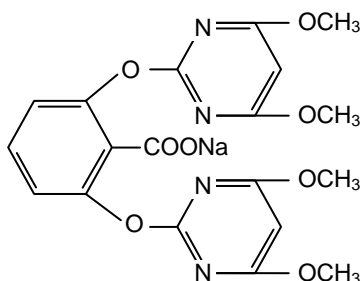
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Section 1: Identification of the Hazardous Chemical and of the Supplier

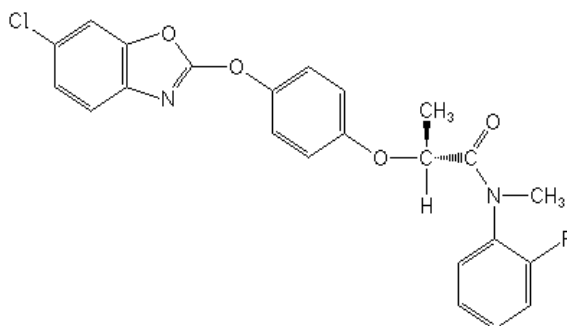
1.1 Product Identifier

Product Name: Bispyribac-sodium 3.8% + Metamifop 9.5% SE
Trade Name: Nominee-M
Active Ingredient: 1. Sodium 2,6-bis[(4,6-dimethoxypyrimidin-2-yl)oxy] benzoate
2. (R)-2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]-N-2 fluorophenyl
-N-methyl propanamide
CAS No.(AI): 1. 125401-92-5
2. 256412-89-2

Structural Formula:



Bispyribac-Sodium



Metamifop


Recommended Usage: Herbicide for agricultural use

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 Sensitization, category 1
Reproductive Toxicity, category 1B
Hazardous to the Aquatic Environment-Chronic, category 2

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Pictogram:



Signal Word: Danger

Hazard Statement:

H317	May cause allergic skin reaction
H360	May damage fertility or the unborn child
H411	Toxic to aquatic life with long lasting effects

Precautionary Statement:

P261	Avoid breathing gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P308 + P313	IF exposed or concerned: Get medical advice/attention.

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

Component	CAS No.	Weight, %	Hazard Code
Bispyribac-Sodium	125401-92-5	3.8	H317, H373, H401, H411
Metamifop	256412-89-2	9.5	H317, H400, H410
Sodium tetraborate decahydrate (Borax)	1303-96-4	0.8	H312, H315, H319, H360, H370, H372
Inert Ingredients	-	85.9	-

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. Get medical advice/attention.
Skin Contact:	IF ON SKIN: Wash with plenty of soap and water. Remove/Take off all contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
Ingestion:	Call a POISON CENTER or doctor/physician. Rinse mouth.



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Symptoms: No cases of poisoning have been reported to date. Therefore the symptoms of poisoning have not been described.

Notes to Physician: Give symptomatic treatment. Contact the antipoison centre for the later treatment in a hospital environment. If ingested perform gastric lavage and administer activated charcoal.

Section 5: Fire-fighting Measures

Suitable Extinguishing Media: Water spray, foam, dry chemicals, carbon dioxide (CO₂).

Specific Hazard During Fire: CO, CO₂, oxides of nitrogen, chlorides and fluorides are potential thermal decomposition products.

Special Protective Equipment: Fire fighters should wear full-faced self-contained breathing apparatus and protective clothing. Fire fighters should avoid downwind operation.

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: Evacuate non essential personnel by roping an area of leak or spill. Wear appropriate protective gears to avoid breathing vapour and contact with skin, eyes or clothing when working on a spill. Ventilate the closed area. Collect by sweeping or suction into hermetically sealed containers. Prevent spills from entering sewers, watercourses or low areas. Remove all sources of ignition; flares, smoking or flames in the area immediately. Stop leak if safe to do so.

Section 7: Handling and Storage

Precautions for Safe Handling: Avoid breathing dust/fume/gas/mist/vapours/spray. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing.

Conditions for Safe Storage: Store locked up. Store in tightly closed containers in a cool, dark, dry and well-ventilated space. Keep away from heat, steam pipe or combustible materials. Keep away from food, drink and animal feeding stuffs.

Incompatibles: Strong acid and alkali.



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Section 8: Exposure Control and Personal Protection

Exposure Limit:

Source	Component	CAS No.	Limit	
ACGIH	Sodium borate	1303-96-4	TLV-TWA	6 mg/m ³ (STEL)

Engineering Control: Make available emergency shower and eye washes in a work area and storage area. Make available local exhaust ventilation and use sealed equipment to avoid exposure.

Individual Protection Measure: Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required

Personal Protective Equipment:

Eye Protection: Safety goggles

Skin Protection: Gloves, protective clothing (coverall) and boots

Respiratory Protection: Chemical cartridge respirator with an organic vapour cartridge, airline respirator, positive pressure self-contained breathing apparatus.

Section 9: Physical and Chemical Properties

Appearance: Off-white viscous liquid

Odour: Aromatic odour

Odour Threshold: No data available

pH: 9.1 (representative data)

Melting/Freezing Point: Not applicable

Initial Boiling Point: No data available

Boiling Range: No data available

Flash Point: 101°C

Evaporation Rate: No data available

Flammability: Not inflammable

Upper Flammability Limit: No data available

Lower Flammability Limit: No data available

Vapour Pressure: No data available

Vapour Density: No data available

Relative Density: 1.055 (20°C)

Solubility in Water: No data available

Partition Coefficient P_{o/w}: -1.03 (23°C, pH 6.18) as bispyribac-sodium

Auto-ignition Temperature: Not inflammable

Decomposition Temperature: No data available

Viscosity: 164 mPa.s (representative data)



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Section 10: Stability and Reactivity

Reactivity:	No data available.
Chemical Stability:	Stable under normal conditions.
Hazardous Reaction:	Hazardous polymerization has not been reported to occur under normal temperatures and pressures.
Condition to Avoid:	Keep away from heat or steam pipe.
Incompatible Material:	Strong acid and alkali.
Hazardous Decomposition Product:	CO, CO ₂ , oxides of nitrogen, chlorides and fluorides.

Section 11: Toxicological Information

11.1 Acute Toxicity

Oral, LD ₅₀ :		
	Rat	>2000 mg/kg
Dermal, LD ₅₀ :		
	Rat	>2000 mg/kg
Inhalation, LC ₅₀ :		
	Rat	>5.01 mg/l (mist)

11.2 Chronic Effect from Short and Long Term Exposure

Skin Contact:	May cause allergic skin reaction. Positive result in the Buehler guinea pig test. Not classified as skin corrosion/irritation. The average scores after 24, 48 and 72 hours were less than 2.3 in the rabbit skin irritation study though slight irritation (erythema and edema) was observed.
Eye Contact:	Not classified as serious eye damage/eye irritation. The average scores after 24, 48 and 72 hours were less than 2 in the rabbit primary eye irritation study though edema and reddening in conjunctiva were observed.
Inhalation:	No data available.
Ingestion:	No data available.
Carcinogenicity:	No data available.
Mutagenicity:	No data available.
Reproductive Toxicity:	May damage fertility or the unborn child. The mixture contains Sodium Tetraborate Decahydrate which is classified as a category 1B reproductive toxicant at the concentration $\geq 0.1\%$.

11.3 Symptoms

No data available.



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Section 12: Ecological Information

Ecotoxicity:

Component: Metamifop

Fish, LC₅₀:

Carp (96h)

0.33 mg/l

Daphnia magna, LC₅₀ (48h):

0.288 mg/l

Algae, ErC₅₀ (72h):

>0.23 mg/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

The appropriate method of waste treatment is the controlled incineration. Dispose of contents/container to Kualiti Alam / authorized body by DOE or in accordance with local regulation.

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	-



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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: Skin Sensitization, category 1
Reproductive Toxicity, category 1B
Hazardous to the Aquatic Environment-Chronic, category 2

Signal Word: Danger

Pictogram:



Pesticides Act: Class IV
Classification: -

Section 16: Other Information

Date of Preparation: 18 February 2016
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.