



Safety Data Sheet

SDS No.:
SDS-IM/FG-T/02

Toonil

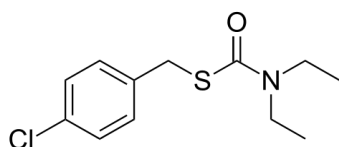
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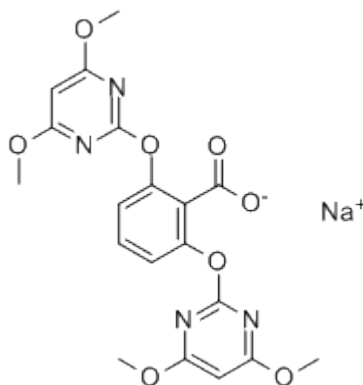
Section 1: Identification of the Hazardous Chemical and of the Supplier

1.1 Product Identifier

Product Name: Thiobencarb 79.7% + Bispyribac Sodium 1.3% OD
Trade Name: Toonil
Active Ingredient: Thiobencarb: S-(4-Chlorobenzyl) diethylcarbamothioate
Bispyribac Sodium: sodium 2,6-bis(4,6-dimethoxy-pyrimidin-2-yl-oxy)benzoate
CAS No.(AI): Thiobencarb: 28249-77-6
Bispyribac Sodium: 125401-92-5
Structural Formula:



Thiobencarb



Bispyribac sodium


Recommended Usage: Herbicide

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: Acute Oral Toxicity Category 4
Specific target organ toxicity (repeated exposure)
Category 2 (oral: liver)
Acute aquatic toxicity Category 1
Chronic aquatic toxicity Category 1

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Pictogram:



Signal Word: Warning

Hazard Statement:

H302: Harmful if swallowed
H373: May cause damage to liver through prolonged or repeated exposure
H400: Very toxic to aquatic life
H410: Very toxic to aquatic life with long lasting effects

Precautionary Statement:

P260: Do not breathe fume/gas/mist/vapour/spray
P264: Wash hands and exposed body parts thoroughly after handling
P270: Do not eat, drink and smoke when using this product
P273: Avoid release to the environment
P301+312: IF SWALLOWED: Called a POISON CENTER or doctor/physician if you feel unwell
P314: Get medical advice/attention if you feel unwell
P330: Rinse mouth
P391: Collect spillage
P501: Dispose of contents/containers to authorised treatment company

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

Component	CAS No.	Weight, %	Hazard Code
Thiobencarb	28249-77-6	78.9%	H302, H400, H410
Bispyribac sodium	125401-92-5	13.2%	H317, H373(liver), H401, H411
Triethanolamine	102-71-6	<3%	H315, H319, H317, H335 (respiratory tract)
Other ingredient	-	-	Not classified constituent

Section 4: First-aid Measures

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

Inhalation: Remove victim to fresh air.



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Skin Contact:	Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash 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 if the person is unconscious. Rinse mouth. Call a POISON CENTER or doctor/ physician.
Symptoms:	No data
Notes to Physician:	No data

Section 5: Fire-fighting Measures

Suitable Extinguishing Media:	Carbon dioxide (CO ₂), chemical foam, dry chemical, aqueous film forming foam, water spray. Avoid extinguishing from entering waterways.
Specific Hazard During Fire:	Thermal decomposition may evolve CO, CO ₂ , SO, SO ₂ , oxides of nitrogen and chlorides.
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. Wear appropriate 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. Adsorb the spill with inert material such as clay or earth, and collect into waste container for disposal. Wash the contaminated area with a little water and detergent. Adsorb with inert material and 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. Wash hands thoroughly after handling. Avoid release to the environment.
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Conditions for Safe Storage: Avoid direct sunlight. Keep in original container, tightly closed, out of reach of children. Keep away from food, drinks and animal feeding stuffs. Keep away from heat source. Read the label before use. Do not contaminate water.

Incompatibles: Not known.

Section 8: Exposure Control and Personal Protection

Exposure Limit:

Source	Component	CAS No.	Limit
ACGIH	Triethaonilamine	102-71-6	TLV-TWA 5mg/m ³

Engineering Control: Local exhaust ventilation, make available emergency shower and eyewash.

Individual Protection Measure: Avoid inhalation. Wash thoroughly after handling and before eating or drinking. Contaminated work clothing should not be washed before reuse. Avoid contact with skin and eyes.

Personal Protective Equipment:

Eye Protection: Protective goggles

Skin Protection: PVC gloves, protective garment and safety shoes

Respiratory Protection: Pesticide respiratory masks, avoid breathing mist or vapour.

Section 9: Physical and Chemical Properties

Appearance: Pale yellowish viscous liquid

Odour: No data available

Odour Threshold: No data available

pH: No data available

Melting/Freezing Point: No data available

Initial Boiling Point: No data available

Boiling Range: No data available

Flash Point: No data available

Evaporation Rate: No data available

Flammability: No data available

Upper Flammability Limit: No data available

Lower Flammability Limit: No data available

Vapour Pressure: No data available

Vapour Density: No data available

Relative Density: 1.14

Solubility in Water: Miscible in water

Partition Coefficient P_{o/w}: No data available

Auto-ignition Temperature: No data available

Decomposition Temperature: No data available

Viscosity: 100mPa.s



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Section 10: Stability and Reactivity

Reactivity:	No data available
Chemical Stability:	Stable under normal storage condition
Hazardous Reaction:	Not known
Condition to Avoid:	No data available
Incompatible Material:	No data available
Hazardous Decomposition Product:	Thermal decomposition may evolve CO, CO ₂ , SO, SO ₂ , oxides of nitrogen and chlorides.

Section 11: Toxicological Information

11.1 Acute Toxicity

Ingestion, Oral LD ₅₀ :		
Rat	1,762mg/kg	
Skin Contact, Dermal LD ₅₀ :		
Rat	>5,000mg/kg	
Inhalation, LC ₅₀ :		
	>20mg/L (mist)	

11.2 Chronic Effect from Short and Long Term Exposure

Skin Contact:	Not classified
Eye Contact:	Not classified
Respiratory Sensitisation:	Classification not possible
Skin Sensitisation:	Not classified
Inhalation:	No data available
Ingestion:	No data available
Carcinogenicity:	No sufficient data
Mutagenicity:	No sufficient data
Teratogenicity:	No sufficient data
STOT-Single Exposure:	Not classified
STOT-Repeated Exposure:	The product contains > 10% of STOT Cat 2 material.
Aspiration hazard:	No sufficient data

11.3 Symptoms No data available

Section 12: Ecological Information

Ecotoxicity:

Component: Thiobencarb		
Acute Aquatic Toxicity		
Algae, LC ₅₀ , 48 hr	0.02mg/L	



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Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effect: Very toxic to terrestrial plants

Section 13: Disposal Information

Dispose of contents/container to Kualiti Alam / authorized body by DOE (pesticides).
Do not re-use empty containers.

Section 14: Transportation Information

Land (ADR/RID)	
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S.
Hazard Class	9
Hazchem Code	-
UN number	3082
Packing Group	III
Label / Mark	9
Sea (IMDG)	
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S.
Hazard Class	9
UN Number	3082
Packing Group	III
Marine Pollutant	-
Label	9
Transport Document Name	-
Air (IATA)	
Proper Shipping Name	Environmentally Hazardous Substance, Liquid, N.O.S.
Hazard Class	9
UN number	3082
Packing Group	III
Label / Mark	9
Transport Document Name	-

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Section 15: Regulatory Information

Classification: Acute Oral Toxicity Category 4
 Specific target organ toxicity (repeated exposure)
 Category 2 (oral: liver)
 Acute aquatic toxicity Category 1
 Chronic aquatic toxicity Category 1

Signal Word: Warning

Pictogram:



Pesticides Act: Class II
Classification: Poisonous

Section 16: Other Information

Date of Preparation: 23 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.