



# Safety Data Sheet

SDS No.:  
SDS-P/L-S/02

Seegenil

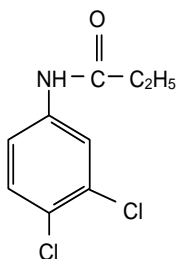
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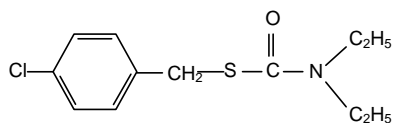
## Section 1: Identification of the Hazardous Chemical and of the Supplier

### 1.1 Product Identifier

Product Name: Propanil 20% + Thiobencarb 40%  
Trade Name: Seegenil  
Active Ingredient: Propanil + Thiobencarb  
CAS No.(AI): 709-98-8 28249-77-6  
Structural Formula:



*Propanil*



*Thiobencarb*

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


## Section 2: Hazard Identification

Classification: Serious Eye Damage, Category 1  
Hazardous to the Aquatic Environment – Acute Hazard, Category 1  
Hazardous to the Aquatic Environment – Chronic Hazard, Category 1

Pictogram:



Signal Word: Danger

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**Hazard Statement:**

H319: Causes serious eye damage  
H400: Very toxic to aquatic life  
H410: Very toxic to aquatic life with long lasting effects

**Precautionary Statement:**

P280: Wear rubber gloves, protective clothing, safety goggles and face protection  
P273: Avoid release to the environment  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor/physician  
P391: Collect spillage  
P501: Dispose of contents/container to DOE authorized waste disposal

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

Component	CAS No.	Weight, %	Hazard Code
Propanil	709-98-8	20%	H302
Thiobencarb	28249-77-6	40%	H302, H400, H410
Surfactant 1	-	3% to < 5%	H318, H412
Surfactant 2	-	< 1%	-
Antifreezing	-	5% to < 10%	H373
Thickener	-	< 1%	-
Water	-	10% to < 30%	-

**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. 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:** Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.



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Symptoms: Perspiration, dizziness, headache, nausea, vomiting, salivation, eye irritation, blurred vision, respiratory difficulties, convulsions, diarrhoea, excessive urination, lassitude, weakness, local irritation, CNS depression, drowsiness, confusion

Notes to Physician: Inject atropine sulphate (2 - 4 mg) subcutaneously or intravenously, repeat every 30 minutes until patient is fully atropinised

## Section 5: Fire-fighting Measures

Suitable Extinguishing Media: Carbon dioxide (CO<sub>2</sub>), chemical foam, dry chemical, water

Specific Hazard During Fire: Noxious fumes may form. Hydrogen chloride, organic acids and chloroanilines may evolve at high temperature

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. 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. Avoid release to the environment.

Conditions for Safe Storage: Keep in original container, tightly closed, out of reach of children. Keep away from food, drinks and animal feeding stuffs. Read the label before use. Do not contaminate water. Open dumping is prohibited.

Incompatibles: Some pesticides, carbamates, some liquid fertilizers, strong oxidizing agents, strong acid and alkali



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## Section 8: Exposure Control and Personal Protection

Exposure Limit:

Source	Component	CAS No.	Limit	
US(WEEL)	Antifreezing	-	TWA	10mg/m <sup>3</sup>

Engineering Control: Local exhaust or general dilution ventilation  
Individual Protection Measure: Avoid inhalation. Wash thoroughly after handling and before eating or drinking. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin and eyes.  
Personal Protective Equipment:  
Eye Protection: Protective goggles  
Skin Protection: PVC gloves and clothing  
Respiratory Protection: Pesticide respiratory masks

## Section 9: Physical and Chemical Properties

Appearance: White viscous liquid  
Odour: Characteristic odour  
Odour Threshold: No data available  
pH: No data available  
Melting/Freezing Point: 85°C to 89°C (Propanil)  
3.3°C (Thiobencarb)  
Initial Boiling Point: > 400°C (Propanil)  
126°C to 129°C at 0.008 mmHg (Thiobencarb)  
Boiling Range: No data available  
Flash Point: 34°C  
Evaporation Rate: No data available  
Flammability: 205°C  
Upper Flammability Limit: No data available  
Lower Flammability Limit: No data available  
Vapour Pressure: 9 x 10<sup>-5</sup> mmHg at 60°C (Propanil)  
2.82 x 10<sup>-5</sup> mmHg at 23°C (Thiobencarb)  
Vapour Density: No data available  
Relative Density: 1.1 (S.G)  
Solubility in Water: Miscible with water  
Partition Coefficient P<sub>o/w</sub>: No data available  
Auto-ignition Temperature: No data available  
Decomposition Temperature: No data available  
Viscosity: No data available



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## Section 10: Stability and Reactivity

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions
Hazardous Reaction:	None
Condition to Avoid:	High humidity, direct sunlight, heat and extreme temperature
Incompatible Material:	Some pesticides, carbamates, some liquid fertilizers, strong oxidizing agents, strong acid and alkali
Hazardous Decomposition Product:	Hydrogen chloride, organic acids and chloroanilines may evolved at high temperatures. May produce CO and CO <sub>2</sub>

## Section 11: Toxicological Information

### 11.1 Acute Toxicity

Component: Propanil		
Ingestion, Oral LD <sub>50</sub> :		
	Rat	367mg/kg
Skin Contact, Dermal LD <sub>50</sub> :		
	Rabbit	4830mg/kg
Component: Thiobencarb		
Ingestion, Oral LD <sub>50</sub> :		
	Rat (male)	920mg/kg
	Rat (female)	960mg/kg
	Mouse	560mg/kg
Skin Contact, Dermal LD <sub>50</sub> :		
	Rat	>5000mg/kg
Inhalation, LC <sub>50</sub> :		
	Mist	>2.43mg/L
Component: Antifreezing		
Ingestion, Oral LD <sub>50</sub> :		
	Rat	12565mg/kg
Skin Contact, Dermal LD <sub>50</sub> :		
	Rabbit	11980mg/kg

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

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



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## 11.3 Symptoms

Perspiration, dizziness, headache, nausea, vomiting, salivation, eye irritation, blurred vision, respiratory difficulties, convulsions, diarrhoea, excessive urination, lassitude, weakness, local irritation, CNS depression, drowsiness, confusion.

## Section 12: Ecological Information

### Ecotoxicity:

#### Component: Propanil

Acute Aquatic Toxicity			
	Daphnia magna, LC <sub>50</sub> , 48 hr	1.2mg/L	
Chronic Aquatic Toxicity			
	Chlamdomonas moewusii, NOEC, 7day	4.36mg/L	
	Chlamdomonas moewusii, LOEC, 7day	6.65mg/L	
	Biodegradability: readily biodegradable		
	Bioaccumulation: Osteichthyes, 10day	200µg/L	
	BCF factor: 10-15		
Component: Thiobencarb			
Acute Aquatic Toxicity			
	Carp, LC <sub>50</sub> , 96 hr	0.98mg/L	
	Rainbow Trout, LC <sub>50</sub> , 96 hr	1.1mg/L	
	Daphnia magna, LC <sub>50</sub> , 48 hr	1.1mg/L	
	Algae, ErC <sub>50</sub> , 72 hr	0.026mg/L	
	Honeybee, LD <sub>50</sub> , 48 hr	>100µg/bee	
	Earthworm, LC <sub>50</sub> , 14 day	874mg/kg	
	Bobwhite quail, LD <sub>50</sub> ,	>5000mg/kg	
Chronic Aquatic Toxicity			
	Carp, LC <sub>50</sub> , 96 hr	0.98mg/L	
	Rainbow Trout, LC <sub>50</sub> , 96 hr	1.1mg/L	
	Daphnia magna, LC <sub>50</sub> , 48 hr	1.1mg/L	
	Algae, ErC <sub>50</sub> , 72 hr	0.026mg/L	
	Honeybee, LD <sub>50</sub> , 48 hr	>100µg/bee	
	Earthworm, LC <sub>50</sub> , 14 day	874mg/kg	
	Bobwhite quail, LD <sub>50</sub> ,	>5000mg/kg	
	Log P <sub>ow</sub> = 4.23, Bioconcentration Factor(BCF) = 302		
	Biodegradability = Not readily biodegradable		
Component: Antifreezing			
Acute Aquatic Toxicity			
	Fathead Minnow, LC <sub>50</sub> , 96 hr	75200mg/L	
	Water Flea, EC <sub>50</sub> , 24 hr	> 10000mg/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: No data available

## Section 13: Disposal Information

Dispose of contents/container to Kualiti Alam / authorized body by DOE (pesticides)

## Section 14: Transportation Information

<b>Land (ADR/RID)</b>	
Proper Shipping Name	Pesticide, Liquid, Toxic, N.O.S
Hazard Class	6.1
Hazchem Code	-
UN number	2902
Packing Group	III
Label / Mark	6
<b>Sea (IMDG)</b>	
Proper Shipping Name	Pesticide, Liquid, Toxic, N.O.S
Hazard Class	6.1
UN Number	-
Packing Group	2902
Marine Pollutant	III
Label	6
Transport Document Name	-
<b>Air (IATA)</b>	
Proper Shipping Name	Pesticide, Liquid, Toxic, N.O.S
Hazard Class	6.1
UN number	-
Packing Group	2902
Label / Mark	III
Transport Document Name	-

## Section 15: Regulatory Information

Classification: Serious Eye Damage, Category 1  
Hazardous to the Aquatic Environment – Acute Hazard, Category 1  
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Signal Word: Danger

Pictogram:



Pesticides Act:  
Classification: Class III  
Irritant

### Section 16: Other Information

Date of Preparation: 21 December 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.