



**BPMC 98 TC**

SDS No : SDS - 130B  
 Revision : 0  
 Date of Issue : March 08<sup>th</sup>, 2019

**SECTION 1 - IDENTIFICATION**

Product Name : BPMC 98 TC  
 Active Ingredients : Fenobucarb  
 Synonym : *2-sec-butylphenyl methylcarbamate*  
 Recommended use and restrictions on use : Used for Active ingredients of Insecticide  
 Company Identification : PT Inti Everspring Indonesia  
 Wisma UIC 4th floor, JL. Gatot Subroto Kav. 6-7  
 Jakarta 12930, Indonesia  
 Tel. 62-21-57905245 ; Fax. 62-21-57905244  
 Emergency Telephone Number : 62-254-5750064 / 62-254-5750049

**SECTION 2 - HAZARDS IDENTIFICATION**

**GHS Classification** :

Acute Toxicity (Oral)	Category 4
Acute Toxicity (Dermal)	Category 3
Acute Toxicity (Inhalation)	Category 1
Chronic Aquatic Toxicity	Category 1
Eye Damage/Irritation	Category 2B
Skin irritation / Corrosive	Category 3
Specific Target Organ Toxicity (Single Exposure)	Category 1

**GHS Labelling Symbol (s)** :



**Signal Word** : Danger

**Hazard statements**

H302	Harmful if swallowed
H311	Toxic in contact with skin
H330	Fatal if inhaled
H410	Very toxic to aquatic life with long lasting effects
H316	Causes mild skin irritation
H320	Causes eye irritation
H370	Causes damage to organs (nervous system)

**Precautionary Statements**

**Prevention**

P260	Do not breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling
P270	Do not eat, drink, or smoke when using this product
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection
P284	In case of inadequate ventilation wear respiratory protection



### Precautionary Statements

### Respos

- P301+P312 IF SWALLOWED: Immediately call a poison center/doctor
- P330 Rinse mouth
- P302+P352 IF ON SKIN : wash with plenty of water
- P312 Call a poison center/doctor if you fell unwell
- P321 Specific treatment (see on this label)
- P361+P364 Take off immediately all contaminated clothing and wash it before us
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P310 Immediately call a poison center/doctor
- P320 Spesific treatment is urgent (see on this label)
- P391 Collect spillage
- P332+P313 If skin irritation occurs :Get medical advice/attention
- P305+P351 +P338 IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persist, get medical advice/attention.
- P308+P311 IF exposed or concerned : Call a POISON CENTER/doctor

### Precautionary Statements

### Storage

- P405 Store locked up
- P403+P233 Store in welll ventilated place. Keep container tightly closed.

### Disposal

- P501 Dispose of contents/container in accordance with local regulations / regional / national / international

### Other Hazard

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## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS NO	Concentration (%)
<i>2-sec-butylphenyl methylcarbamate</i>	3766-81-2	98

## SECTION 4 - FIRST- AID MEASURES

- Eye : Open your eyes and wash carefully with flushing water continuously for 15-20 minutes. If the eyes are still irritated, contact a poison control center or doctor for further treatment.
- Skin : Wash the skin immediately with soap and running water for 15-20 minutes. If skin irritation occurs, the use of oils or lotions containing vitamin E may be considered. Contact Poisoning Treatment Center or doctor for treatment.
- Ingestion : Rarely ingested liquid aerosol; However, if swallowed do not provide the action that triggers vomiting, rinse your mouth with water. Immediately contact your doctor.
- Inhalation : Move the patient to place air-fresh air and keep at rest. Keep the patient warm and at rest. Immediately contact your doctor for further treatment.
- Facility : Provide facilities / water (eye wash, emergency shower) in the work area.
- Symptoms that arise : *Fenobucarb* is a *carbamate* class of compounds which inhibit the action of enzymes acetyl cholinesterase and disrupt the central nervous system. Symptoms that may



arise if someone poisoning are headache; blurred vision; limp; sweating nausea and vomiting. Worse may experience seizures and respiratory problems.

### SECTION 5 - FIRE FIGHTING MEASURES

- General Information : Firefighters should consider the nature of the poison of the product and use a face shield, a complete self-contained breathing apparatus and fire retardant clothing.
- Extinguishing Media : Water, dry chemical, foam, CO<sub>2</sub>
- Hazardous Decomposition Products : Nitrite, Chloride, CO<sub>2</sub>

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Isolation spill area and restrictions on the entry. Absorb spill with absorbent material such as sand, wash and put in a container. Clean the spill area with detergent former and water then rinse with clean water. Collect used washing water into the container. Do not allow spills contaminate sources of water / drainage, as well as surface water. Dispose of containers that contain the spill, the former washing water, and the former sand / other absorbent material in accordance with local regulations / national / international regulations.

### SECTION 7 - HANDLING AND STORAGE

- Handling : Do not breathe vapour or mist. This product causes mild eye and skin irritation. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Wash clothing after use. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.  
This product must be under the control of an approved handler at all times. This product must be tracked.
- Storage : Do not store near sources of sparks, flame or heat. Keep under lock and keep out of reach of unauthorised persons, children and animals. Store in its original labeled container in isolated, dry, cool and well-ventilated area. Not to be stored next to foodstuffs and water supplies. Local regulations should be complied with.

### SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

- Engineering control : Make sure the product handling is done in a place that is well ventilated

#### Personal Protective Equipment

- Eye Protection : Safety goggles
- Gloves : Rubber gloves with chemical resistant
- Clothing Protection : Long-sleeved clothing and long sleeve pants, shoes and socks, chemical-resistant headgear
- Respiratory Protection : Chemical mask
- Breathing Protection : According to the recommendations contained breathing apparatus NIOSH if the concentration in the air exceeds the level of effective air purifying respirator, or when it reaches the level Immediately dangerous to life or health (IDLH).

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- 1 Physical Appearance : Liquid
- 2 Color (concentrate) : Clear colorless to yellowish Liquid
- 3 Odor : A bit Phenol odor
- 4 Odor Threshold : No data available
- 5 pH (concentrate) : 5 - 9



6	Melting point	: 31.4 °C
7	Freezing point	: No data available
8	Boiling point	: 112-113 °C
9	Flash point	: No data available
10	The rate of Evaporation	: No data available
11	Flammability	: No data available
12	Upper/lower flammability	: No data available
13	Vapor Pressure	: 9.9 mPa at 20 °C
14	Molecular weight	: No data available
15	Decomposition temperature	: No data available
16	Auto ignition temperature	: No data available
17	Viscosity	: No data available
18	Bulk Density	: No data available
19	Density relative	: 1.035 g/ml
20	Water Solubility	: 420 mg/l (20 °C)
21	Coefficient partition : n-octanol/water	: No data available

**SECTION 10 - STABILITY AND REACTIVITY**

Reactivity	: No data available
Stability	: Stable at normal temperatures and storage
Hazardous reactions are possible under specific conditions	: No data available
Condition to Avoid	: Excessive temperature, flames, and fire
Incompatible material to avoid	: Strong acids and base
Hazardous Product of Decomposition	: Nitrite, Chloride, CO <sub>2</sub>
Hazardous Polymerization	: No data available

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Acute Toxicity (oral) LD <sub>50</sub>	: 623 mg/kg for male rat and 657 mg/kg for female rat. Clonic convulsions were observed at the dosage within the guidance values for Category 1, in an oral administration test using rats (Agricultural Chemical Abstracts), so it was judged that the target organ was the nervous system (NITE, 2006).
Acute Toxicity (dermal) LD <sub>50</sub>	: 250 mg/kg for female rat
Acute Toxicity (inhalation) LC <sub>50</sub>	: >0.366 mg/l for rat 4 hours
Subchronic toxicity (90 days)	: No data available
Chronic Toxicity( 2 years)	: Chronic effect for 2 years observed 4.1 mg/kg for rat with diet/day 100 mg/kg (NITE, 2006).
Mutagenicity in germ cells	: No mutagenicity
Carcinogenicity	: No carcinogenic activity
Eye Irritation	: Mild eye irritation
Skin irritation	: Mild eye irritation

**SECTION 12 - ECOLOGICAL INFORMATION****Acute Toxicity**

Fish	- <i>Crap</i> LC50 96 hours	: 25.4 mg/l
Invertebrate	- <i>Daphnia</i> LC50 48 hours	: 0.0103 mg/l
Bird	- <i>Mallard Duck</i> LD50 5 days	: 224 mg/kg
Potential bioaccumulation		: No data available



Persistence and degradation by environment : No data available  
Soil Mobility : No data available  
Others adverse effect : Very toxic for bees

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Disposal, storage or cleaning equipment should not be used to contaminate food, fodder or water. Read the instructions extermination listed on the product label. The product is highly toxic to aquatic life with long effects. Do not contaminate domestic water or other water sources. Disposal Containers / Packaging: Destroy empty container and dispose of / destroyed in accordance with local / national / international. Do not use a used container for any purpose.

**SECTION 14 - TRANSPORT INFORMATION****DOT (US)**

Proper shipping name : CARBAMATE PESTICIDE, LIQUID, TOXIC (BPMC TECHNICAL)  
Class Danger Transport : 6.1  
UN Number : UN 2992  
Packing Group : II

**IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**

Proper shipping name : CARBAMATE PESTICIDE, LIQUID, TOXIC (BPMC TECHNICAL )  
Class Danger Transport : 6.1  
UN Number : UN 2992  
Packing Group : II  
Marine Pollutant : Yes (Fenobucarb)

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

UN Number : UN 2992  
Class and Packing group : 6.1 and II  
Proper shipping name : CARBAMATE PESTICIDE, LIQUID, TOXIC (BPMC TECHNICAL )

**SECTION 15 - REGULATORY INFORMATION**

Safety Data Sheet / Safety Data Sheet meets the regulations :

1. Regulation of the Minister of Industry of the Republic of Indonesian number 23 / M-INDPER / 4/2013
2. Minister of Indonesian Labour Decree No. Kep. 187/MEN/1999 about Hazardous Chemicals Control in the Workplace
3. GHS Building Blocks Seventh revised edition

**SECTION 16 - OTHER INFORMATION**

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. Safety Data Sheet is valid for 5 years from publication.

Reference :

1. Building Blocks Seventh revised edition of the GHS
2. Regulation of the Minister of Industry of the Republic of Indonesian number 23 / M-INDPER/4/ 2013
3. Toxicity Data of Salim Agrochemical Group's Product
4. Manual Book Pesticide fifteenth Edition, C D S Tomlin, 2009 BCPC
5. National Institute of Technology and Evaluation (NITE). 2006. Fenobucarb. Japan.