



# INTI EVERSPRING

## SAFETY DATA SHEET



### CHLORPYRIFOS 21% + BPMC 10.5% EC

SDS No : SDS – 206A  
 Revision : 0  
 Date of Issue : 08 Maret 2019

#### SECTION 1 - IDENTIFICATION

Product Name : CHLORPYRIFOS 21% + BPMC 10.5% EC  
 Active Ingredients : Chlorpyrifos + BPMC  
 Synonym Chlorpyrifos : *O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate*  
 Synonym BPMC : *2-sec-butylphenyl methylcarbamate*  
 Recommended use and restrictions on use : 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 4
Acute Toxicity (Inhalation)	Category 2
Chronic Aquatic Toxicity	Category 1
Serious Eye Damage / Eye Irritation	Category 2A
Skin Corrosion / Irritation	Category 3
Specific Target Organ Toxicity (Single Exposure)	Category 1
Specific Target Organ Toxicity (Repeated Exposure) – Nervous system, Adrenal gland	Category 1
Specific Target Organ Toxicity (Repeated Exposure) - Eye	Category 2

**GHS Labelling Symbol (s)** :



**Signal Word** :

**Hazard statements**

: Danger

H302	Harmful if swallowed
H312	Harmful in contact with skin
H330	Fatal if inhaled
H410	Very toxic to aquatic life with long lasting effects
H316	Causes mild skin irritation
H319	Causes serious eye irritation
H370	Causes damage to organs (nervous system)
H372	Cause damage to organs through prolonged or repeated exposure (nervous system, adrenal gland)
H373	May cause damage to organs through prolonged or repeated exposure (eye)



**Precautionary Statements**

**Prevention**

- P260 Do not breathe dust/fume/gas/mist/vapours/spray
- P264 Wash thoroughly after handling
- P270 Do not eat, drink, or smoke when using this product
- P271 Use only outdoors or in 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: Call a poison center/doctor if you feel unwell
- P321 Specific treatment (see on this label)
- P330 Rinse mouth
- P312 Call a poison center/doctor if you fell unwell
- P302+P352 IF ON SKIN : Wash with plenty of water
- P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing
- P310 Immediately call a poison center/doctor
- P320 Specific treatment is urgent (see on this label)
- P391 Collect spillage
- P305+P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332+P313 If skin irritation occurs: Get medical advice/attention
- P337+P313 If eye irritation persists: Get medical advice/attention
- P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.
- P314 Get medical advice/attention if you fell unwell
- P362+P364 Take off contaminated clothing and wash it before reuse

**Precautionary Statements**

**Storage**

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

**Disposal**

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

**Other Hazard**

-

**SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME	CAS NO	CONCENTRATION (%)
<i>O,O-diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate</i>	2921-88-2	21
<i>2-sec-butylphenyl methylcarbamate</i>	3766-81-2	10.5
Others	-	68.5



**SECTION 4 - FIRST-AID MEASURES**

- Eye : If concentrate is splashed in eyes, flush with running water for at least 15 minutes. Take to hospital without delay.
- Skin : If spilt on the skin, remove contaminated clothing and wash affected areas of skin immediately. DO NOT Scrub the skin. Remove and wash contaminated clothing before re-use.
- Ingestion : If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre or a doctor immediately.
- Inhalation : If inhaled, remove from exposure and have patient lie down and keep quiet. If patient is not breathing, start artificial respiration immediately. Never give anything by mouth to an unconscious person. Call a physician if necessary.

**SECTION 5 - FIRE FIGHTING MEASURES**

- General Information : Firefighters must consider the nature of the product and use the poison face shields, full breathing apparatus and flame resistant clothing.
- Extinguishing Media : Dry powder, CO<sub>2</sub> or foam.
- Specific Hazard of Fire : Nitrogen Oxides, Carbon, Sulfur, and Phosphorus

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Wear protective clothing. Eliminate ignition source. Ventilate area. Absorb spills with inert material such as clay, sand, earth, sawdust and collect in a drum. Cover up the contaminated area with household detergent and small amount of water. Brush the slurry and spread inert absorbents on the slurry liquid and collect the absorbed material in a drum. Seal drum and dispose of as a toxic waste in accordance with local / national regulations. Do not contaminate water resources.

**SECTION 7 - HANDLING AND STORAGE**

- Handling : Do not breathe vapour or mist. This product causes skin and eye irritation, do not get in eyes or skin. 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. Do not expose sealed container to temperatures above 50°C. Not to be stored next to foodstuffs and water supplies. Local regulations should be complied with.

**SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION**

- Engineering control : Use only with adequate ventilation. If needed use local exhaust to keep minimum exposures.
  - Exposure Control : 0.1 mg/m<sup>3</sup> (TLV-TWA ACGIH 2005)
- Personal Protective Equipment**
- Eye Protection : Safety goggles or full faceshields
  - Gloves : Rubber gloves with chemical resistant
  - Clothing Protection : Long-sleeved clothing, long pants, shoes with socks
  - Respiratory Protection : Mask, in case of inadequate ventilation wear respiratory protection that recommended by NIOSH

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

- 1 Physical Appearance : Liquid
- 2 Color : Clear brownish yellow liquid
- 3 Odor : Slightly smelt of mercaptan



4	Odor Threshold	:	Not available
5	pH (1% )	:	4.5 – 7.0
6	Melting Point (technical)	:	Not available
7	Freezing Point	:	Not available
8	Boiling Point (technical)	:	Not available
9	Flash Point (technical)	:	Not available
10	The rate of Evaporation	:	Not available
11	Flammability	:	Not available
12	Upper/lower flammability	:	Not available
13	Vapour Pressure ( technical material)	:	Not available
14	Molecular weight	:	Not available
15	Decomposition temperature	:	Not available
16	Autoignition temperature	:	Not available
17	Viscosity	:	Not available
18	Specific Gravity	:	Not available
19	Density relative	:	Not available
20	Water Solubility	:	Not available
21	Koefisien partition : n-octanol/water	:	Not available

**SECTION 10 - STABILITY AND REACTIVITY**

Reactivity	:	Not available
Stability	:	Stable at normal temperatures and storage conditions, unstable to increase pH
Hazardous Reaction under Specific Condition	:	Not available
Condition to Avoid	:	Avoid temperature >50 <sup>0</sup> C , Heat and extreme temperature trigger decomposition that can increase the pressure in a closed system.
Incompatible material to avoid	:	Oxidizing agents, bases, copper and metals
Hazardous Product of Decomposition	:	Nitrogen Oxides, Carbon, Sulfur, and Phosphorus
Hazardous Polymerization	:	Will not occur

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Data Toxicity Mixtures**

Acute Toxicity (oral) LD <sub>50</sub>	:	436 mg/kg (ATEmix)
Acute Toxicity (dermal) LD <sub>50</sub>	:	1177 mg/kg (ATEmix)
Acute Toxicity (inhalation) LC <sub>50</sub>	:	0.58 mg/l (ATEmix)

**Data Toxicity Chlorpyrifos Technical**

Acute Toxicity (oral) LD <sub>50</sub>	:	153 - 163 mg/kg for rats
Acute Toxicity (dermal) LD <sub>50</sub>	:	>2000 mg/kg for rabbits
Acute Toxicity (inhalation) LC <sub>50</sub>	:	>0.2 mg/l
Specific Target Organ Toxicity (Single Exposure) - Technical Material	:	The effects resulting from inhibition of cholinesterase activity and the symptoms suggesting the effects on the nervous system were observed in the oral administration tests using rats (NITE-CHRIP, 2006).
Specific Target Organ Toxicity (Repeated Exposure) - Technical Material	:	Since in the oral study using rat, paralysis of both legs and a tail, the decrease in activity of brain cholinesterase and adrenal zona fasciculata fatty vacuolization were observed within the given dose. In the oral study using mouse, acute or subacute keratitis were observed within the given



	dose (NITE-CHRIP, 2006).
Subchronic toxicity (90 days) - Technical Material	: Not available
Chronic Toxicity (2 years) -Technical Material	: Not available
Mutagenicity in germ cells	: No mutagenicity
Carcinogenicity	: No carcinogenic activity
Eye Irritation (rabbit)	: Moderate irritating
Skin Irritation (rabbit)	: Mild irritating

**Data Toxicity BPMC Technical**

Acute Toxicity (oral) LD <sub>50</sub>	: 623 mg/kg for male rate 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
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 Chlorpyrifos Technical**

Fish - <i>Rainbow trout</i> (LC <sub>50</sub> 96 h)	: 0.07-0.51 mg/l
- <i>Bluegill Sunfish</i> (LC <sub>50</sub> 96 h)	: 0.002-0.010 mg/l
Daphnia - <i>Daphnia Magna</i> (EC <sub>50</sub> 48 h)	: 1.7 µg/l
Alga - <i>Selenastrum capricornutum</i> (NOEC)	: >0.4 mg/l
Bird - <i>Mallard Ducks</i> (LD <sub>50</sub> )	: 490 mg/kg
Bees LD <sub>50</sub> (oral 120 h)	: 360 ng/bee (toxic for bees)
Bio accumulation	: No bioaccumulation
Persistence and degradation by environment	: Short persistence in animals, plants, water and soil. In soil, Chlorpyrifos is moderately degraded (Koc 1250-12600).
Soil Mobility	: Relatively immovable in the soil, it does not significantly interfere with soil elements
Others adverse effect	: Toxic for bees

**Acute Toxicity BPMC Technical**

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, animal feed or water. Read extermination instructions listed on the product label. Products are very toxic to aquatic organisms with long lasting effects. Do not contaminate domestic water or other water sources. Disposal Containers / Packaging: Destroy empty container and dispose of / destroyed in accordance with local regulations. Never use second-hand containers for any purpose.

### SECTION 14 - TRANSPORT INFORMATION

#### DOT (US)

Proper shipping name : PESTICIDE, LIQUID, TOXIC, N.O.S. (Chlorpyrifos, BPMC)  
Class Danger Transport : 6.1  
UN Number : UN 2902  
Packing Group : II

#### IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN Number : UN 2902  
Class and Packing group : 6.1 and II  
Proper shipping name : PESTICIDE, LIQUID, TOXIC, N.O.S. (Chlorpyrifos, BPMC)  
Marine Pollutant : Yes (Chlorpyrifos, BPMC)

#### IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN Number : UN 2902  
Class and Packing group : 6.1 and II  
Proper shipping name : PESTICIDE, LIQUID, TOXIC, N.O.S. (Chlorpyrifos, BPMC)

### 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. Building Blocks sixth revised edition of the GHS

### 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.

#### Reference:

1. Building Blocks sixth revised edition of the GHS
2. Regulation of the Minister of Industry of the Republic of Indonesian number 23 / M-INDPER / 4/2013
3. CDS Tomlin. 2009. Manual Pesticide fifteenth Edition. BCPC
4. National Institute of Technology and Evaluation (NITE). 2006. Chlorpyrifos. Japan
5. National Institute of Technology and Evaluation (NITE). 2006. Fenobucarb. Japan