



CARBOFURAN 75 TK

SDS No:SDS - 162BRevision:0Date of Issue:March 08th, 2019

SECTION 1 - IDENTIFICATION				
Product Name	CARBOFUR	CARBOFURAN 75 TK		
Active Ingredients	Carbofuran			
Synonim	2,3-dihydro-2	2,2-dimethylbenzofuran-7-yl N-	methylcarbamate	
Recommended use and	Used for Act	ve ingredients of Insecticide		
restrictions on use				
Company Identification		pring Indonesia		
		Ith floor, JL. Gatot Subroto Kav	. 6-7	
		30, Indonesia		
		Tel. 62-21-57905245 ; Fax. 62-21-57905244		
Emergency Telephone Number	62-254-5750	064 / 62-254-5750049		
SECTION 2 - HAZARDS IDENTI				
GHS Classification	Acute Toxici	v (Oral)	Category 2	
	Acute Toxici		Category 5	
		y (Inhalation)	Category 2	
		Damage/Eye Irritation	Category 2B	
	Skin Corrosi	• •	Category 3	
	Germ Cell M	utagenicity	Category 2	
	Specific Targ	get Organ Toxicity (Single	Category 1	
	Exposure)			
		get Organ Toxicity (Repeated	Category 1	
	Exposure)			
	Acute Aquat	-	Category 1	
	Chronic Aqu	atic I oxicity	Category 1	
GHS Labelling		$\mathbf{\wedge}$	\wedge	
Symbol (s)			AV.	
		~~~~~~~~~~~		
Signal Word	Dongor	•	•	
Signal Word	Danger			
Hazard statements	H300+H330	Fatal if swallowed or if inhale		
	H313	May be harmful in contact w	ith skin	
	H316	Causes mild skin irritation		
	H320	Causes eye irritation	a dafa sta	
	H341	Suspected of causing genetic		
	H370	Causes damage to organs (		
	H372	Causes damage to organs testis) through prolonged or		
	H400	Very toxic to aquatic life	repeated exposure	
	H410	Very toxic to aquatic life with	long lasting effects	
Precautionary Statements	Prevention			
	P264	Wash thoroughly after handl	ina	
	P270	Do not eat, drink, or smo	-	
		product		
	P260	Do not breathe dust/fume/ga	as/mist/vapours/spray	
		0		



INTI EVERSPRING <u>SAFETY DATA SHEET</u>



	P271 P284	Use only outdoors or in well ventilated area In case of inadequate ventilation wear respiratory protection
	P201 P202	Obtain special instructions before use Do not handle until all safety precautions have been read and understood
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection
	P273	Avoid release to the environment
Precautionary Statements	Respons	
	P301+P310	IF SWALLOWED: Immediately Call a POISON CENTER/doctor
	P321	Specific treatment (see on this label)
	P330	Rinse mouth
	P302+P312	IF ON SKIN : Call a poison center/DOCTOR/ if you feel unwell
	P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
	P310	Immediately call a POISON CENTER or doctor/physician.
	P320	Specific treatment is urgent (see on this label)
	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+P313	IF exposed or concerned : Get medical advice/attention
	P308+P311	IF exposed or concerned : call a POISON CENTER/doctor
	P321	Specific treatment (see on this label)
	P314	Get medical advice/attention if you feel unwell
	P391	Collect spillage
Precautionary Statements	Storage	
	P405	Store locked up
	P403+P233	Store in well ventilated place. Keep container tightly closed.
	Disposal	
	P501	Dispose of contents/container in accordance with local/ national/ international regulation
	Other Hazard	

**Other Hazard** 

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

CHEMICAL NAME	CAS NO	CONCENTRATION (%)
2,3-dihydro-2,2-dimethylbenzofuran-7-yl N- methylcarbamate	1563-66-2	75
Others	-	25





### SECTION 4 - FIRST- AID MEASURES

Eye		IF IN EYES, rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
Skin	ofs	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. Call a poison center/DOCTOR/ if you feel unwell.			
Ingestion		IF SWALLOWED DO NOT induce vomiting. For advice, contact the National Poisons Centre or a doctor immediately.			
Inhalation	•				
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 :		: Foam, dry chemical, carbon dioxide, or water spray			
Specific Haza	ard of Fire	: Irritating and toxic gas			

### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

If container is ruptured or begins to leak, place in a well-ventilated area free of sparks and ignition sources.

Use Personal protective equipment as recommended in section 8.

Prevent product from entering drains or water courses. Shovel or sweep up spills. Never return to container for reuse. Scoop into bags or boxes using plastic or aluminium shovel. Pesticide that cannot be used according to label instructions must be disposed of according to all applicable Local, procedures.

SECTION 7 - HANDLING AN	ID STORAGE		
Handling	Do not handle until all safety precautions have been read an understood. Do not breathe dust, vapour or mist. This product cause mild irritation to skin and eye. Do not get in eyes or skin. Was thoroughly after handling. Wash clothing after use. Do not store consume food, drink or tobacco in areas where they may becon contaminated with this material. This product must be under the control of an approved handler at 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.		
<b>SECTION 8 - EXPOSURE C</b>	ONTROL / PERSONAL PROTECTION		
0	Use only with adequate ventilation. Apply grounding system for power tools to prevent static electric charge.		
Threshold Limit Value : (TLV)	0.1 mg/m ³ (V) TLV-TWA 8hr		
Personal Protective Equipr	nent		
Eye Protection	Safety glasses or face shield		

- Gloves : Chemical resistant gloves
- Clothing Protection : Wear clothing with long sleeve
- Respiratory Protection : Mask, in case of inadequate ventilation wear respiratory protection that recommended by NIOSH



# INTI EVERSPRING <u>Safety data sheet</u>



SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES				
1	Physical Appearance	:	Powder	
2	Color	:	White to cream	
3	Odor	:	Not available	
4	Odor Threshold	:	Not available	
5	рН (1% )	:	8.39	
6	Melting Point	:	Not available	
7	Freezing Point	:	Not available	
8	Boiling Point	:	Not available	
9	Flash Point	:	Not available	
10	The rate of Evaporation	:	Not available	
11	Flammability	:	Not available	
12	Lower Explosive Limit (LEL)	:	Not available	
13	Vapour Pressure	:	Not available	
14	Molecular weight	:	Not available	
15	Decomposition temperature	:	Not available	
16	Autoignition temperature	:	Not available	
17	Viscocity	:	Not available	
18	Bulk Density	:	0.3421	
19	Density relative	:	Not available	
20	Solubility in water	:	Not available	
21	Koefisien partition : n-octanol/water	:	Not available	
SEC	SECTION 10 - STABILITY AND REACTIVITY			
	ctivity	:	None known	
Stat	bility	:	Stable under normal storage condition	
Haz	ardous Reaction under Specific Condition	:	Not available	
Con	dition to Avoid	:	Avoid excessive temperature. Decomposes > 150°C.	
	ompatible material to avoid	:	Unstable in alkaline material	
	ardous Product of Decomposition	:	Irritating and toxic gas	
Haz	ardous Polymerization	:	Will not occur	
SECTION 11 - TOXICOLOGICAL INFORMATION				
Acu	te Toxicity (oral) LD ₅₀	:	10.67 mg/kg (ATEmix) 1152 mg/kg for female rats (Pesticide Manual,2009)	
	te Toxicity (dermal) LD ₅₀ te Toxicity (inhalation) LC ₅₀		The neurologic symptom which indicates cholinesterase inhibits activities in the exposure tests to human in ACGIH (2004) was observed, and that the sensorimotor neuropathy was observed in the ingestion of very large amounts case (NITE, 2006). >2000 mg/kg (ATEmix) 0.1 mg/l (ATEmix)	
Sub Mat	chronic toxicity (90 days) - Technical erial	:	Not available	
Chr	onic Toxicity (2 years) -Technical Material	:	In the oral study for two years using rats in ACGIH (2004), reduction in brains cholinesterase activities was observed with the given dose within the guidance value range of Category 1, and that in the oral study for one year using dogs in ACGIH	





Mutagenicity in germ cells - Technical Material	<ul> <li>(2004) and IRIS (2006) the effects on the nervous system and testes were observed with the given dose (NITE, 2006).</li> <li>There is a positive result from the micronucleus test using mouse erythrocytes, which is an in vivo mutagenicity test using somatic cells (ACGIH, 2004 in NITE, 2006)</li> </ul>	
Carcinogenicity	: No carcinogenic activity	
Eye Irritation	: Mild irritant (Pesticide Manual, 2009)	
Skin Irritation	: Mild irritant (Pesticide Manual, 2009)	
SECTION 12 - ECOLOGICAL INFORMATION		
Acute Toxicity		
Fish - Bluegill sunfish (LC ₅₀ 96 h)	: 1.75 mg	
Fish – Golden orfe (LC ₅₀ 96 h)	: 7.3 – 362.5 μg/l	
Daphnia <i>- Daphnia Magna</i> (LC ₅₀ 48 h)	: 38.6 µg/l	
Bird - Japanese quail (LD ₅₀ )	: 0.7 - 8 mg/kg	
Bio accumulation	: Not available	
Persistence and degradation by environment	: $DT_{50}$ in soil c. 50 – 60 d. Most important metabolite is $CO_2$ formed by microbiological degradation of the phenol compounds $K_{\infty}$ 22.	
Soil Mobility	: Not available	
Others adverse effect	: Toxic for bees	
SECTION 13 - DISPOSAL CONSIDERATIONS		
Disposal, storage or cleaning equipment should	not be used to contaminate food, animal feed or water.	

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 life 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	:	CARBAMATE PESTICIDE, SOLID, TOXIC (Carbofuran 75%)		
Class Danger Transport	:	6.1		
UN Number	:	UN 2757		
Packing Group	:	1		
IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)				
UN Number	:	UN 2757		
Class and Packing group	:	6.1 and I		
Proper shipping name	:	CARBAMATE PESTICIDE, SOLID, TOXIC (Carbofuran 75%)		
Marine Pollutant	:	Yes (Carbofuran)		
IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)				
UN Number	:	UN 2757		
Class and Packing group	:	6.1 and I		
Proper shipping name	:	CARBAMATE PESTICIDE, SOLID, TOXIC (Carbofuran 75%)		

### **SECTION 15 - REGULATORY INFORMATION**

Safety Data Sheet / Safety Data Sheet meets the regulations :

- 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 seventh 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 seventh revised edition of the GHS
- Regulation of the Minister of Industry of the Republic of Indonesian number 23 / M-INDPER / 4/2013
- 3. Manual Pesticide fifteenth Edition, C D S Tomlin, 2009, BCPC
- 4. National Institute of Technology and Evaluation Chemical Risk Information Platform (NITECHRIP). Carbofuran. Japan, 2006
- 5. American Conference of Governmental Industrial Hygienist (ACGIH). Table of Exposure Limit for Chemical and Biological Substances. 2017