OXAMYL 5% GR

SDS No	:	SDS - 202B
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SECTION 1 - IDENTIFICATION

Product Name	:	OXAMYL 5% GR
Active Ingredients	:	Oxamyl
Synonim	:	*N,N-dimethyl-2-methylcarbamoyloxyimino-2-(methylthio) acetamide*
Recommended use and restrictions on use	:	Insectiside
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 2
Acute Toxicity (Dermal)	Not classified
Acute Toxicity (Inhalation)	Category 4
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1A
Specific target organ toxicity - Single exposure	Category 1
Specific target organ toxicity - Repeated exposure	Category 1
Hazardous to the Aquatic Environment-Long-term (chronic) Hazard	Category 1

GHS Labelling :

Symbol (s)

Signal Word : Danger

Hazard statements

H300	Fatal if swallowed
H332	Harmful if inhaled
H341	Suspected of causing genetic defects
H350	May cause cancer
H370	Causes damage to organs (central nervous system)
H372	Cause damage to organs through prolonged or repeated exposure (respiratory system, immune system, kidney, systemic toxicity, nervous system)
H410	Very toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P264	Wash throughly after handling
P270	Do not eat, drink, or smoke when using this product

	P260	Do not breathe dust/fume/gas/mist/vapours/spray
	P261	Avoid breathing dust/fume/gas/mist/vapours/spray
	P271	Use only outdoors or in well ventilated area
	P280	Wear protective gloves/protective clothing/eye protection/face protection
	P273	Avoid release to the environment
Precautionary Statements	**Respons**	
	P301+P310	If swallowed: immediately call a poison center/ doctor
	P314	Get medical advice/attention if you feel unwell
	P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing
	P308+P311	IF exposed or concerned: Call a POISON CENTER or doctor
	P308+P313	IF exposed or concerned: Get medical advice/attention
	P311	Call a POISON ENTER/doctor
	P312	Call a POISON CENTER/doctor if you fell unwell
	P321	Specific treatment (see on this label)
	P330	Rinse mouth
	P391	Collect spillage
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	
	-	

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO	CONCENTRATION (%)
N,N-dimethyl-2-methylcarbamoyloxyimino-2-(methylthio) acetamide	23135-22-0	5 %
Other's		95 %

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	:	Use water spray, foam, dry chemical or carbon dioxide. Do not use high volume water jet.
Specific Hazard of Fire	:	CO_2, NO_X

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Use Personal protective equipment.

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.

Wash contaminated surfaces to remove any residues. Neutralise with solid sodium hydroxide at rate of 1 kg per 5 litres. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 7 - HANDLING AND STORAGE

Handling	:	Do not breathe vapour or mist. 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	:	Use only with adequate ventilation
Personal Protective Equipment		
Eye Protection	:	Safety goggles and protective eye
Gloves	:	Chemical resistant gloves with nitrile rubber material
Clothing Protection	:	Full protective clothing
Respiratory Protection	:	Half mask with a particle filter FFP3 (EN149), in case of inadequate ventilation wear respiratory protection that recommended by NIOSH

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

1	Physical Appearance	:	Granul
2	Color	:	Violet
3	Odor	:	Slight, solvent
4	Odor Threshold	:	Not available
5	pH (1%)	:	3-7
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	:	>23^0C
12	Upper/lower flammability	:	Not available
13	Vapour Pressure	:	Not available
14	Molecular weight	:	219,26
15	Decomposition temperature	:	Not available
16	Autoignition temperature	:	Not available

17 Viscocity	:	Not available
18 Bulk Density	:	0.768 gr/ml
19 Density relative	:	Not available
20 Water Solubility	:	229 g/l at 25^{0}C
21 Koefisien partition : n-octanol/water	:	Not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	:	Not available
Stability	:	Decomposes under alkaline conditions or in presence of moisture. Sensitive to heat and light.
Hazardous Reaction under Specific Condition	:	Not available
Condition to Avoid	:	Heating can release hazardous gases. Under severe dusting condition material may form explosive mixtures in air
Incompatible material to avoid	:	No materials to be especially mentioned
Hazardous Product of Decomposition	:	No hazardous decomposition products if stored and handled as prescribed/ indicated
Hazardous Polymerization	:	Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity (oral) LD_{50}	:	49.10 mg/kg Rat (ATEmix) In an acute oral toxicity test (2.5-20.0mg/kg) and an acute inhalation toxicity test (0.020-0.090mg/L) symptoms indicating the effects on the central nervous system, such as clonic convulsions, salivation, lacrimation, ocular hemorrhage, spasms, becoming pale, protrusion of the eyeballs, facial spasms and dyspnea were observed in rats (Oxamyl technical).
Acute Toxicity (dermal) LD_{50}	:	>2,000 mg/kg Rat (ATEmix)
Acute Toxicity (inhalation) LC_{50}	:	1.1 mg/l Rat (ATEmix)
Subchronic toxicity (90 days) – Oxamyl technical	:	Based on the description that in 90-day oral toxicity study to rat with the dose (2.03-8.37 mg/kg) observed decreased weight gain, the abnormalities of haematologic and biochemical inspection items, change of organ weight, inhibition of a hemocyto and brain cholinesterase activity, tremors, and gait abnormality were observed (NITE-CHRIP, 2006)
Chronic Toxicity (2 years) -Sand	:	There is description that the respiratory system and the kidney are affected in humans, and it was classified into Category 1 (respiratory system, kidney) – NITE-CHRIP, 2006
Mutagenicity in germ cells	:	Suspected of causing genetic defects - NITE-CHRIP, 2006
Carcinogenicity (Sand)	:	IARC68 (1997) is classified into 1
Eye Irritation	:	Not irritating
Skin Irritation	:	Not irritating

SECTION 12 - ECOLOGICAL INFORMATION

Acute Toxicity Oxamyl technical

Fish - *Rainbow trout*(LC_{50} 96 h)	:	4.2 mg/l
Daphnia - *Daphnia* (LC_{50} 48 h)	:	0.319 mg/l
Algae - *Green algae* (EC_{50} 96 h)	:	3.3 mg/l

Bird - *Mallard Duck* (LD_{50})	:	3.83 mg/kg
Bio accumulation	:	Low potential to bio-concentrate.
Persistence and degradation by environment	:	Not readily biodegradable. Not persistent in soil or water
Soil Mobility	:	Low mobility
Others adverse effect	:	Not available

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	:	CARBAMATE PESTICIDE, SOLID, TOXIC (Oxamyl)
Class Danger Transport	:	6.1
UN Number	:	UN 2757
Packing Group	:	II

IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN Number	:	UN 2757
Class and Packing group	:	6.1 and II
Proper shipping name	:	CARBAMATE PESTICIDE, SOLID, TOXIC (Oxamyl)
Marine Pollutant	:	Yes (Oxamyl)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN Number	:	UN 2757
Class and Packing group	:	6.1 and II
Proper shipping name	:	CARBAMATE PESTICIDE, SOLID, TOXIC (Oxamyl)

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 sixth 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.

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. FAO Specifications and Evaluations for Oxamyl. Oxamyl Technical. 2008
5. Manual Pesticide fifteenth Edition, C D S Tomlin, 2009 BCPC
4. National Institute of Technology and Evaluation Chemical Risk Information Platform (NITE-CHRIP). Quartz (Sand). Japan, 2006
5. National Institute of Technology and Evaluation Chemical Risk Information Platform (NITE-CHRIP). Oxamyl. Japan, 2006