



SAFETY DATA SHEET



OXAMYL 24 % SL

SDS No : SDS - 167B
 Revision : 0
 Date of Issue : March 8rd, 2019

SECTION 1 - IDENTIFICATION

Product Name : OXAMYL 24 % SL
 Active Ingredients : Oxamyl
 Synonim : *N,N-dimethyl-2-methylcarbamoyloxyimino-2-(methylthio)acetamide*
 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 2
Acute Toxicity (Dermal)	Category 5
Acute Toxicity (Inhalation)	Category 2
Specific Target Organ Toxicity (Single Exposure)	Category 1
Specific Target Organ Toxicity (Repeated Exposure)	Category 1
Acute Aquatic Toxicity	Category 1
Chronic Aquatic Toxicity	Category 3
Eye Damage/Irritation	Category 2B
Flammable Liquid	Category 3

GHS Labelling
Symbol (s)



Signal Word : Danger

Hazard statements

H300	Fatal if swallowed
H313	May be harmful in contact with skin
H330	Fatal if inhaled
H370	Causes damage organs (neurology system)
H372	Causes damage organs (neurology and vascular system) through prolonged or repeated exposure
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects
H226	Flammable liquid and vapour
H320	Causes eye irritation

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



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- P271 Use only outdoors or in well ventilated area
- P284 (In case of inadequate ventilation) wear respiratory protection
- P273 Avoid release to the environment
- P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
- P233 Keep container always closed
- P240 Ground and bond container and receiving equipment
- P242 Use non sparking tools
- P243 Take action to prevent static discharges
- P280 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements

Respos

- P301+P310 If swallowed: immediately call a poison center/doctor
- P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing
- P308+P311 IF exposed or concerned: call a poison center / doctor
- P310 Immediately call a poison center/doctor
- P312 Call a poison center/doctor if you fell unwell
- P314 Get medical advice/attention if you fell unwell
- P320 Specific treatment is urgent (see on this label)
- P321 Specific treatment (see on this label)
- P330 Rinse mouth
- P391 Collect spillage
- P303+P361 If on skin (or hair): take off immediately all contaminated clothing. Rinse skin with water (or shower)
- +P353
- P370+P378 In case of fire, use appropriate fire extenguisher to extenguish.
- P305+P351 If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- +P338
- P337+P313 If eye irritation persist, get medical advice/attention.

Precautionary Statements

Storage

- P405 Store locked up
- P403+P235 Store in wellll ventilated place. Keep cool.
- 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

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SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO	CONCENTRATION (% w/w)
<i>N,N-dimethyl-2-methylcarbamoyloxyimino-2-(methylthio)acetamide</i>	23135-22-0	24 %
Other material include solvent and surfactant	-	76 %

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 : Water Spray, Foam, Dry Chemical, CO₂
- Specific Hazard of Fire : Burning chemicals may produce by products more toxic than the original material

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Use personal protective equipment for handling spill.
 Local regulations should be complied with.
 Do not allow to enter drains or water courses. When the product contaminates public waters, inform appropriate authorities immediately in accordance with local regulations.
 Remove all sources of flames and sparks.
 For small liquid spills, soak up with lime, damp earth or sand, or other noncombustible absorbent material and place into containers for later disposal.
 For large liquid spills, contain the liquid for later disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Do not flush spilled material into drains. Keep spectators away.
 Local regulations should be complied with for later disposal.

SECTION 7 - HANDLING AND STORAGE

- Handling : Do not breathe vapour or mist. This product causes eye irritation, do not get in eyes. 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.



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SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering control : Use only with adequate ventilation

Personal Protective Equipment

Eye Protection : Safety goggles or faceshield

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 : Dark Green Clear

3 Odor : Odorless

4 Odor Threshold : Not available

5 pH (1%) : 3-6

6 Melting Point : Decomposes on distillation (technical)

7 Freezing Point : Not available

8 Boiling Point : Not available

9 Flash Point : 23 °C

10 The rate of Evaporation : Not available

11 Flammability : Not available

12 Upper/lower flammability : Not available

13 Vapour Pressure (technical material) : 0,051 mPa (25 °C)

14 Molecular weight : 219,3

15 Decomposition temperature : Not available

16 Autoignition temperature : Not available

17 Viscosity : Not available

18 Bulk Density : Not available

19 Density relative : 0.95-0.98 g/L

20 Water Solubility : Soluble in water

21 Koefisien partition : n-octanol/water : Not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity : Not available

Stability : Stable at normal temperatures and storage conditions

Hazardous Reaction under Specific Condition : Not available

Condition to Avoid : Heat, flames, spark, fire

Incompatible material to avoid : Incompatible with strong acids or bases (slowly hydrolyzes)

Hazardous Product of Decomposition : Will not occur

Hazardous Polymerization : Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity (oral) LD₅₀ : 9,3 mg/kg Rat
 An acute oral LD50 of 2.5 mg/kg (technical) of body weight was calculated for female rats and 3.1 mg/kg for male rats gave oral doses of oxamyl (90% a.i.). Clinical signs that were observed included heavy breathing, fasciculations, salivation and lacrimation (EPA, 2004).

Acute Toxicity (dermal) LD₅₀ : >2000 mg/kg Rat

Acute Toxicity (inhalation) LC₅₀ : 0,23 mg/l (ATEmix)

Subchronic toxicity (90 days) - Technical : Repeated oral doses of 2.4 mg/kg of oxamyl given



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Material	5 days/ week for 2 weeks caused the animals also had slight body weight decreases, exhibited salivation and slight pallor. The animals also exhibited typical anticholinesterase symptoms such as fasciculations and salivation soiled fur, lacrimation, salivation, slow righting reflex, abnormal gait, tremors, impaired locomotion, no response to tail pinch, increased limb splay, incoordination, labored breathing, decreased forelimb and hind limb grip strength (EPA, 2004).
Chronic Toxicity (2 years) -Technical Material	: Not available
Mutagenicity in germ cells	: No mutagenicity
Carcinogenicity	: No carcinogenic activity
Eye Irritation	: Rabbit: Slightly irritating
Skin Irritation	: Rabbit: Non-irritating

SECTION 12 - ECOLOGICAL INFORMATION

Acute Toxicity

Fish - <i>Rainbow trout</i> (LC ₅₀ 96 h)	: 4,3 mg/l
Daphnia - <i>Daphnia Magna</i> (LC ₅₀ 48 h)	: 0,41 mg/l
Algae - <i>Senenastrium capricornutum</i> (EC ₅₀ 96 h)	: 3,2 mg/l
Bird - <i>Mallard Duck</i>	: 4 mg/kg
Bio accumulation	: Not available
Persistence and degradation by environment	: In the soil, oxamyl degrades rapidly with a half-life of 2 to 4 weeks under aerobic conditions and less than 1 week under anaerobic conditions. Not persistent in soil or water.
Soil Mobility	: Mobility increased as the amount of organic matter decreased in the soil.
Others adverse effect	: Highly toxic to bees Acute LD50 (contact) 0,33 ug/bee, (oral) 0,05 ug/bee

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, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C (Oxamyl, methanol)
Class Danger Transport	: 6.1
UN Number	: UN 2991
Packing Group	: III

IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN Number	: UN 2991
Class and Packing group	: 6.1 and III
Proper shipping name	: CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE, flash point not less than 23 °C (Oxamyl, methanol)



Marine Pollutant : Yes (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. Building Blocks fifth 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 fifth 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. FAO Specifications and Evaluations for Oxamyl. Oxamyl Soluble Concentrate.2008
5. Manual Pesticide fifteenth Edition, C D S Tomlin, 2009 BCPC