



METHOMYL 97% TC

SDS No : SDS - 164B

Revision : 0

Date of Issue : March 08th, 2019

SECTION 1 - IDENTIFICATION

METHOMYL 97% TC Product Name

Active Ingredients Methomyl

Synonim S-methyl-N-(methylcarbamoyloxy)thioacetimidate

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

62-254-5750064 / 62-254-5750049 Emergency Telephone:

Number

SECTION 2 - HAZARDS IDENTIFICATION

GHS Classification Acute Toxicity (Oral) Category 2

Acute Toxicity (Inhalation) Category 2 Serious Eve Damage/Eye Irritation Category 2B Specific Target Organ Toxicity (Single Category 1

Exposure)

Specific Target Organ Toxicity (Repeated Category 2

Exposure)

Acute Aquatic Toxicity Category 1 Chronic Aquatic Toxicity Category 2

GHS Labelling Symbol (s)







Signal Word Danger

H300 Fatal if swallowed **Hazard statements** H330 Fatal if inhaled

H320 Causes eye irritation

Causes damage to organs (neurology system) H370 May damage to organs (neurology and blood H373 system) through prolonged or repeated exposure

H400 Very toxic to aquatic life

H411 Toxic to aquatic life with long lasting effects

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

Use only outdoors or in well ventilated area P271

In case of inadequate ventilation wear respiratory P284

protection

P273 Avoid release to the environment

Precautionary Statements Respons

P301+P310 IF SWALLOWED: immediately call a poison





center/c	doctor
----------	--------

P304+P340 IF INHALED: Remove person to fresh air and keep

comfortable for breathing

P305+P351 IF IN EYES: Rinse cautiously with water for several +P338 minutes. Remove contact lenses, if present and

+P338 minutes. Remove contact le easy to do. Continue rinsing.

P308+P311 If exposed or concerned: Call a poison

center/doctor.

P310 Immediately call a poison center/doctor

P314 Get medical advice/attention if you feel unwell P320 Spesific treatment is urgent (see on this label)

P321 Specific treatment (see on this label)

P330 Rinse mouth

P337+P313 If eye irritation persist: Get medical advice/attention

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/ national/ international regulation

Other Hazard

-

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO	CONCENTRATION (%)
S-methyl-N-(methylcarbamoyloxy)thioacetimidate	16752-77-5	97

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 : Foam, dry chemical, carbon dioxide, water, or halon

Specific Hazard of Fire : NO, SO, HCN, MIC Hazardous Product of : NO, SO, HCN, MIC

Decomposition

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 AND STORAGE

Handling : Do not breathe vapour or mist. This product causes mild eye 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.

Danger : There is a risk of explosion if formed mixture of dust and air. No

smoking or welding in the workplace. Apply grounding system for

power tools to prevent static electric charge.

SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering control : Use only with adequate ventilation. Apply grounding system for power

tools to prevent static electric charge.

Threshold Limit Value: 2.5 mg/m³ - 8 hour (TLV TWA, ACGIH 2017)

(TLV)

Personal Protective Equipment

Eye Protection : Safety glasses

Gloves : Chemical resistant gloves
Clothing Protection : Wear clothing with long sleeve

Respiratory Protection : Mask or wear respiratory protection In case of inadequate ventilation

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

1 Physical Appearance : Powder

2 Color White to cream 3 Odor Sulfurous odor Odor Threshold 4 Not available 5 pH (1%) 5 - 6 (pH 1 %) 78-79°C 6 Meltina Point 7 Freezing Point Not available

8 Boiling Point : 136°C (Auto decomposition)

9 Flash Point : Not available
10 The rate of Evaporation : Not available
11 Flammability : Not available
12 Lower Explosive Limit (LEL) : 0.096 g/L

13 Vapour Pressure : 0.72 mPa (25 °C)
14 Molecular weight : Not available
15 Decomposition temperature : Not available
16 Autoignition temperature : Not available

16 Autoignition temperature : Not available
 17 Viscocity : Not available
 18 Bulk Density : 1.2946 (25 °C)

19 Density relative : 1.3

20 Solubility : 57.9 g/l (25 °C)





21 Koefisien partition: n-octanol/water 0.6

SECTION 10 - STABILITY AND REACTIVITY

Reactivity None known Stability Stable Hazardous Reaction under Specific Condition Not available

Avoid processing temperature: > 136 °C. Heating Condition to Avoid

can release hazardous gases. To avoid thermal

decomposition, do not overheat.

Under severe dusting conditions, this material

may form explosive mixtures in air

Avoid static electric charge and other ignition

Avoid mixed with highly reactive chemicals such Incompatible material to avoid

as strong acid, strong base or strong oxidizing

agent.

NO, SO, HCN Hazardous Product of Decomposition Hazardous Polymerization Will not occur

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity (oral) LD₅₀ 17-24 mg/kg Rat (Salim Agrochemical, 2015)

> The oral LD 50 values for methomyl based on rat studies, were 34 and 30 mg/kg in males and females, respectively (Toxicity Category I). Clinical signs observed in all treatment groups of both sexes included tremors, low posture and

salivation (EPA, 1998 in NITE 2006).

Acute Toxicity (dermal) LD₅₀ >5000 mg/kg (Salim Agrochemical, 2015) 0.3 mg/l Rat / 4 hour (Pesticide Manual 2009) Acute Toxicity (inhalation) LC₅₀

Subchronic toxicity (90 days) - Technical

Material

In a 90-day feeding study in rats, Charles River CD rats (10/sex/group) were fed methomyl at dietary levels of 0, 0.5, 2.5 or 12.5 mg/kg/day for 13 weeks. The NOEL is 6.25 mg/kg/day and the LOEL is 12.5 mg/kg/day for rat based on inhibited body weight gain in both sexes and erythroid hyperplasia in the bone marrow of males (EPA,

1998 in NITE 2006).

Chronic Toxicity (2 years) -Technical Material

Mutagenicity in germ cells

Carcinogenicity

Eye Irritation

Not available

No mutagenicity

No carcinogenic activity

Mild eye irritant (rabbits), corneal opacity and iritis

were observed at 1 hour after the treatment and

completely reversed by 7 days.

Skin Irritation Non irritant

SECTION 12 - ECOLOGICAL INFORMATION

Acute Toxicity

Fish - Bluegill sunfish (LC₅₀ 96 h) 0.63mg/l -Fathead minnow (Pimephales Fish 0.076 ppm

promelas) NOEC

Daphnia - Daphnia Magna (LC₅₀ 48 h) 17 µg/l Daphnia Magna NOEC 21 days >0.4 ppb Bird - Bobwhite Quail (LD₅₀) 24.2 ma/l

No bioaccumulation, unstable intermediates were Bio accumulation

converted to acetonitrile and CO2, which were eliminated primarily via respiration and in the urine



ISO 9001

SAFETY DATA SHEET

animals.

Persistence and degradation by environment : Methomyl is weak to moderately persistant, with

a soil half life $(t_{1/2})$ ranging from a few to more 50 days. Rapidly degraded in soil. DT50 in

groundwater samples <0.2 d. Koc 72.

Soil Mobility : Low mobility in soil
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 life and 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 (Methomyl

Technical)

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 (Methomyl

Technical)

Marine Pollutant : Yes (Methomyl)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN Number : UN 2757 Class and Packing group : 6.1 and II

Proper shipping name : CARBAMATE PESTICIDE, SOLID, TOXIC (Methomyl

Technical)

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. Toxicity Data of Salim Agrochemical Group's Product 2015
- 4. Manual Pesticide fifteenth Edition, C D S Tomlin, 2009, BCPC





- 5. National Institute of Technology and Evaluation Chemical Risk Information Platform (NITECHRIP). Methomyl. Japan, 2006
- 6. American Conference of Governmental Industrial Hygienist (ACGIH). Table of Exposure Limit for Chemical and Biological Substances. 2017