



# SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC) or  
1-866-374-1975 (Tessengerlo Kerley)

## 1. IDENTIFICATION

**PRODUCT NAME:** Lannate Insecticide  
**DESCRIPTION:** A solid insecticide  
**Reg. No.:** 10868 Pest Control Products Act  
**COMPANY IDENTIFICATION:** Tessengerlo Kerley, Inc.  
 2910 N. 44<sup>th</sup> Street, Suite 100  
 Phoenix, AZ 85018-7272  
 (602) 889-8300

## 2. HAZARD IDENTIFICATION

### DANGER

Fatal if swallowed or if inhaled (H300+H330)  
 May cause respiratory irritation (H335)  
 May cause drowsiness or dizziness (H336)  
 Very toxic to aquatic life with long lasting effects (H400+H410)



### HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Acute Toxicity, Oral	2	None	-
Acute Toxicity, Inhalation	2		
Specific Target Organ Toxicity, Single Exposure	3	Environmental Hazards	Category
		Hazardous to the Aquatic Environment – Acute	1
		Hazardous to the Aquatic Environment – Chronic	1

### HAZARDS NOT REQUIRING CLASSIFICATION

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds.

### PRECAUTIONARY STATEMENTS

Do not breathe dust. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or with adequate ventilation. In case of inadequate ventilation wear respiratory protection. (P260+P264+P270+P271+P284)

**IF SWALLOWED:** Get emergency medical help immediately. Specific treatment see Section 4 for additional medical information. Rinse mouth. (P301+P316+P321+P330)

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately. Specific treatment is urgent see Section 4 for additional medical information. (P304+P340+P316+P320)

Avoid release to the environment not in accordance with the product label. Collect spillage. Store locked up. Dispose of contents / container using instructions in the product label and in accordance with local / Federal regulations. (P273+P391+P405+P501)

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Methomyl	Ethanimidothioic acid, N-[[[(methylamino)carbonyl]oxy]-, methyl ester	16752-77-5	90.0%
Amorphous precipitated silica		112926-00-8	3.0-10.0%

**NOTE:** Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

#### 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-441-3637 for emergency medical treatment information.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**ATROPINE IS AN ANTIDOTE - SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONING.**

If poisoning symptoms appear (see POISONING SYMPTOMS), get medical attention.

**POISONING SYMPTOMS:** Methomyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors. If poisoning symptoms appear, refer to First Aid section on front of Lannate Insecticide label and seek medical attention at once.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate gastric lavage.

**TREATMENT** — Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg. intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to LANNATE Insecticide alone. However, for exposure to combinations of LANNATE Insecticide and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

#### 5. FIREFIGHTING MEASURES

**Flammability :** Not available.

**Fire and Explosion Hazards:** No data available.

**Extinguishing Medium:** Water spray, alcohol-resistant foam.

**Fire Fighting Equipment:** Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

**Fire Fighting Instructions:** Evacuate personnel and keep upwind of fire. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Do not allow run-off from firefighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Hazardous Combustion Products:** Not available.

**NFPA Ratings:** Health – 4 / Flammability – 1 / Reactivity - 0

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document. Ensure adequate ventilation.

**Environmental Precautions:** Contain spillage and minimize spread. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Keep out of drains, sewers, ditches and water ways. Do NOT contaminate water when disposing of rinse waters.

**Spill Cleanup:** Avoid creating dust during cleanup. Sweep, scoop or shovel spilled material and place into suitable closed containers for reuse or disposal. After decontamination, spill area can be washed with water. Collect washwater for approved disposal. Place leaking containers in oversize leakproof drums for transport.

## 7. HANDLING AND STORAGE

**Handling:** DO NOT BREATHE DUST OR SPRAY MIST. Do not get in eyes or on clothing. Wear protective eyewear and respirator. Avoid contact with skin. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**Storage:** Handle this package carefully to prevent breakage of inner bag when stored at low temperatures. Allow to warm above 50°F for normal handling. Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS No.	Value type (Form of exposure)	Control parameters/ permissible concentration	Basis
Methomyl	16752-77-5	TWA (Inhalation fraction and vapor)	0.2 mg/m <sup>3</sup>	ACGIH
		TWA	2.5 mg/m <sup>3</sup>	OSHA P0
Amorphous precipitated silica	112926-00-8	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m <sup>3</sup> / %SiO <sub>2</sub> (Silica)	OSHA Z-3
		TWA	6 mg/m <sup>3</sup>	OSHA P0

### Biological occupational exposure limits

Components	CAS No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Methomyl (ISO)	16752-77-5	Acetylcholinesterase activity	In red blood cells	End of shift	70 % of an individual's baseline	ACGIH BEI
		Butyrylcholinesterase activity	In serum or plasma	End of shift	60 % of an individual's baseline	ACGIH BEI

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

**Protective Clothing:** Wear long sleeve shirt and long pants, chemical-resistant gloves made of barrier laminate or butyl rubber >14 mil, socks and chemical resistant footwear, protective eyewear, respirator as outlined on the label, and chemical resistant apron. For exposures in enclosed areas, also wear a minimum of a NIOSH-approved elastomeric half mask respirator with organic vapor (OV) cartridge and a combination N, R, or P filter; or a NIOSH-approved gas mask with OV canisters; or a NIOSH-approved air purifying respirator with OV cartridges and combination HE filters. For exposures outdoors, also wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R or P filter; or a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; or a NIOSH-approved powered air-purifying respirator with an HE filter.

**General:** Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	white or blue powder	<b>pH:</b>	not available
<b>Melting point:</b>	not available	<b>Kinematic viscosity:</b>	not available
<b>Boiling point:</b>	not available	<b>Solubility (water):</b>	not available
<b>Flammability:</b>	not available	<b>Partition coefficient:</b>	not available
<b>Flammability limits (upper/lower):</b>	not applicable	<b>Vapor pressure:</b>	not available
<b>Flash point (cc):</b>	not available	<b>Density:</b>	1.2946 g/cm <sup>3</sup>
<b>Auto-ignition temperature:</b>	not available	<b>Relative vapor density:</b>	not available
<b>Decomposition temperature:</b>	not available	<b>Particle characteristics:</b>	not available
<b>Odor:</b>	slight sulfurous		

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** None.

**CHEMICAL STABILITY:** No decomposition if stored and applied as directed. Stable under normal conditions.

**INCOMPATIBILITY WITH OTHER MATERIALS:** None.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposition products depend upon temperature, air supply and the presence of other materials.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

The following information is for the product, Lannate Insecticide:

**ORAL TOXICITY (rat LD<sub>50</sub>):** 23 mg/kg

**DERMAL TOXICITY (rabbit LD<sub>50</sub>):** > 2,000 mg/kg

**INHALATION TOXICITY (rat LC<sub>50</sub>):** 0.258 mg/L (4 hours)

**EYE IRRITATION:** No eye irritation (Rabbits)

**SKIN IRRITATION:** No skin irritation (Rabbits)

**SKIN SENSITIZATION:** Did not cause sensitization on laboratory animals. (Guinea pigs)

The following information is for the individual components of the product:

**CARCINOGENICITY:**

**EPA:** Evidence of non-carcinogenicity for humans (methomyl)

**ACGIH:** Not listed                      **NTP:** Not listed

**IARC:** Not listed                      **OSHA:** Not listed

**GERM CELL MUTAGENICITY:** Animal testing did not show any mutagenic effects.

**REPRODUCTIVE TOXICITY:** In animal studies, did not interfere with reproduction. Did not cause birth defects in laboratory animals.

**SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:** Central nervous system. May cause drowsiness or dizziness.

## 12. ECOLOGICAL INFORMATION

This pesticide is toxic to fish, aquatic invertebrates, and mammals.

The following information is for the active ingredient, methomyl:

**AQUATIC TOXICITY - Acute**

Rainbow Trout (96-hour LC<sub>50</sub>): 2.49 mg/L

Bluegill Sunfish (96-hour LC<sub>50</sub>): 0.63 mg/L

Water Flea (48-hour EC<sub>50</sub>): 0.017 mg/L

Algae (72-hour ErC<sub>50</sub>): > 100 mg/L

**AVIAN TOXICITY**

Bobwhite Quail (8-day LC<sub>50</sub>): >5,620 mg/kg

**HONEYBEE TOXICITY**

Honeybee (2-day Oral LD<sub>50</sub>): 0.00028 mg/kg

Honeybee (2-day Contact LD<sub>50</sub>): 0.00016 mg/kg

### 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Nonrefillable and refillable containers. See container label for container handling and disposal instructions. Dispose of contents /container to local and national hazardous waste disposal regulations.

### 14. TRANSPORT INFORMATION

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

**US-DOT:**

UN2757, Carbamate pesticides, solid, toxic, (methomyl), 6.1, PG II, Marine Pollutant

**IMDG:**

UN2757, Carbamate pesticides, solid, toxic, (methomyl), 6.1, PG II, Marine Pollutant

**IATA:**

UN2757, Carbamate pesticides, solid, toxic, (methomyl), 6.1, PG II, Marine Pollutant

**EMS Number:**

F-A, S-A

**Note:** In accordance with 49 CFR 171.4(c), non-bulk packagings (max capacity of 119 gal. (450 L) or less for liquids or 882 lbs. (400 kg) or less for solids) transported by motor vehicle, rail car or aircraft are excepted from all Marine Pollutants regulations in 49 CFR and therefore do not have to be labeled as such. All bulk shipments or any shipment transported partially or entirely by vessel are treated as regulated Marine Pollutants and should be labeled accordingly.

### 15. REGULATORY INFORMATION

**FIFRA –**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the GHS classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER. FATAL IF SWALLOWED. MAY BE FATAL IF INHALED OR GETS IN EYES. DO NOT BREATHE DUST OR SPRAY MIST.**

Do not get in eyes or on clothing. Wear protective eyewear and respirator. Harmful if absorbed through skin. Avoid contact with skin. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish, aquatic invertebrates, and mammals.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds.

This chemical is known to leach through soil into groundwater under certain conditions as a result of label use.

This chemical can contaminate surface water through spray drift.

**PHYSICAL OR CHEMICAL HAZARDS**

Keep container closed. Use with adequate ventilation.

## 15. REGULATORY INFORMATION (CONT.)

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

### ***Safety, health and environmental regulations/legislation specific for the substance or mixture***

#### **Section 355 (extremely hazardous substances):**

Not listed

#### **SARA Title III – Section 302 Extremely Hazardous Substances**

Methomyl (CAS No. 16752-77-5): 90.0%

#### **SARA Title III – Section 311/312 Hazard Categories**

Immediate (Acute)

#### **Section 313 (Toxic Release Reporting-Form R):**

Not listed

#### **CERCLA/SUPERFUND:**

Methomyl (CAS No. 16752-77-5): 90.0% (100 lbs.)

#### **California Proposition 65**

This product does not contain any chemical known to the State of California to cause cancer or other reproductive harm.

#### **RCRA Classification**

RCRA Code: P066

#### **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

#### **CANADA**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

## 16. OTHER INFORMATION

The information and recommendations contained herein are provided in good faith and 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 herein.

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