

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Kenso Agcare Methomyl 225 Insecticide
Product Type: Group 1A Insecticide
Company Name: Kenso Corporation (M) Sdn Bhd
Address: Level 1, 98 Commercial Road, Teneriffe, 4005 QLD.
Telephone Number: (07) 3216 1188
Emergency Telephone Number: 000 (Police or Fire Brigade)
13 11 26 (Poisons Information Centre)
Use: For the control of insect pests in various crops.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification: Classified as hazardous according to criteria of Safe Work Australia.
Classified as a Dangerous Good according to the ADG code.



Classification of the Hazardous Chemical: Flammable liquids – Category 2
Acute toxicity (Oral) – Category 1,2
Acute toxicity (Dermal) – Category 3
Serious eye damage/ eye irritation – Category 2/2A
Acute toxicity (Inhalation) – Category 3
Specific target organ toxicity, single exposure – Category 1
Hazardous to the aquatic environment, long term – Chronic 1

GHS Signal Word: **DANGER**

Hazard statement: H225: Highly flammable liquid and vapour.
H300: Fatal if swallowed.
H311: Toxic in contact with skin.
H319: Causes serious eye irritation.
H331: Toxic if inhaled.

Prevention:

H370: Causes damage to organs.
H410: Very toxic to aquatic life with long lasting effects.
P210: Keep away from heat/hot surfaces/sparks/open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting equipment.
P242: Use only non-sparking tools.
P243: Take action to prevent static discharge.
P260: Do not breathe dust/fume/gas/mist/vapours or spray.
P264: Wash contacted areas thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.

Response:

P273: Avoid release to the environment.
 P280: Wear protective gloves, protective clothing and eye or face protection.
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P303+P361+P353: IF ON SKIN (or hair): Take off all contaminated clothing. Rinse skin with water [or shower].
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P311: IF exposed or concerned: Call a POISON CENTRE/ doctor/physician.
 P312: Call a POISON CENTRE/doctor/physician if you feel unwell.
 P321: Specific treatment (see FIRST AID on this label).
 P330: Rinse mouth.
 P337+P313: If eye irritation persists: Get medical advice/attention.
 P361+P364: Take off immediately all contaminated clothing and wash it before reuse.
 P370+P378: In case of fire: Use carbon dioxide, dry chemical, foam and water fog to extinguish.
 P391: Collect spillage.
 P403+P233: Store in a well-ventilated place. Keep container tightly closed.
 P403+P235: Store in a well-ventilated place. Keep cool.
 P405: Store locked up.
 P501: Dispose of contents and containers as specified on the registered label.

SUSMP Classification: S7
ADG Classification: Class 3: Flammable liquids. Sub Risk: Class 6.1: Toxic substance
UN Number: 2758, CARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23°C, (METHANOL, METHOMYL)

Storage:

Disposal:

Emergency Overview

Physical Description & colour: Blue liquid

Odour: Alcohol odour

Major Health Hazards: Symptoms of Methomyl include weakness, blurred vision, headache, nausea, abdominal cramps, chest discomfort, confusion, muscle incoordination and loss of reflexes may also be experienced.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Methomyl	16752-77-5	22.5%
Methanol	67-56-1	59.3%
Inert ingredients	secret	to 100%

SECTION 4 – FIRST AID MEASURES

Inhalation:	Remove affected persons into fresh air and keep warm and at rest. Seek medical advice if at all worried.
Skin contact:	Carefully remove contaminated clothing and wash affected skin thoroughly with soap and water. Seek medical advice if at all worried.
Eye contact:	Hold eyes open, flood with water for at least 15 minutes. Seek medical advice.
Ingestion:	If swallowed, do NOT induce vomiting. Seek medical advice immediately.

Advice to Doctor

Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard

Dangerous Decomposition or Combustion Products

Thermal Decomposition

This product is classified as highly flammable. There is a moderate risk of an explosion from this product if commercial quantities are involved in a fire. Any explosion will likely spread the fire to surrounding materials. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying.

Extinguishing Media

Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal foam can be used. Suitable extinguishing media are carbon dioxide, dry chemical, foam, water fog.

Precautions for fire fighters

If a significant quantity of this product is involved in a fire, call the fire brigade. There is a danger of a violent reaction or explosion if significant quantities of this product are involved in a fire.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills and Disposal

Ensure suitable personal protection (including respiratory protection) during removal of spillage. Contain spill and absorb with sand or other absorbent material. Do not allow to enter drains, sewers and watercourses. Collect in sealed open top container for disposal. Triple rinse containers, add rinsings to spray tanks and send containers for recycling or if not recycling, break, crush or puncture and bury empty containers in a local authority landfill or in accordance with local, state or federal regulation. Do not dispose of undiluted chemicals on site.

SECTION 7 – HANDLING AND STORAGE

Handling

When handling this product, do not eat, drink or smoke.

When mixing this product always wear a PVC or rubber apron, elbow length PVC gloves, face shield or goggles and overalls buttoned at the wrist and neck.

When spraying this product, wear a face shield or goggles

After each days use, wash gloves, face shield or goggles and overalls.

If product gets on skin, immediately wash area with soap and water.

Storage

Store in the closed, original container in a well-ventilated area as cool as possible out of direct sunlight. Keep from contact with fertilisers and seeds.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:

<u>Source</u>	<u>Material</u>	<u>TWA mg/m³</u>
Australia Exposure Standards	Methomyl	2.5
	Methanol	262

Engineering Controls:

Use in a well-ventilated area only.

Personal Protection:

Eyes: Wear goggles.

Clothing: Wear cotton overalls buttoned to the neck and wrist and a washable hat if skin exposure is likely.

Gloves: Wear elbow-length PVC gloves.

Respiratory: Wear a disposable mask if inhalation is possible

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Blue liquid
Odour:	Alcohol odour
Boiling point (°C):	Not applicable
Vapour Pressure:	Not applicable
Specific gravity:	0.892
pH:	No data
Flammability Limits:	Flammable
Solubility:	Soluble

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability

This product is stable under normal storage conditions.

Conditions to Avoid

Avoid this product from sources of sparks or ignition. Store in a cool place, preferably below 30°C.

Incompatibilities

Avoid strong acids, strong bases, strong oxidizing agents.

Hazardous Polymerization

Hazardous polymerization is not possible.

Fire Decomposition

Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide

gas in reducing atmospheres. Oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity: An information profile for Methomyl is available at <http://extoxnet.orst.edu/pips/ghindex.html>

Acute Toxicity – Oral

LD₅₀ male rat: 34 mg/kg

LD₅₀ female rat: 30 mg/kg

Acute Toxicity – Dermal

LD₅₀ rabbit: 5880 mg/kg

Acute Toxicity – Inhalation

LC₅₀ male rat (4 hour): 0.3 mg/l

Other Information

Methomyl is not considered to be carcinogenic and teratogenic.

The Australian ADI for methomyl is set at 0.02 mg/kg/day. The corresponding NOEL is set at 0.1 mg/kg/bw/d for human. *ADI= *Acceptable Daily Intake*; NOAEL: *No Observable Adverse Effect Level*. Data adopted from Australia ADI List, June 2023.

Potential Health Effects

Health Effects

Inhalation:	May irritate if inhaled.
Skin contact:	Sensitisation if prolonged skin contact.
Eye contact:	Severe eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious.
Ingestion:	Very toxic if swallowed.

SECTION 12 – ECOLOGICAL INFORMATION

Acute Toxicity – Fish

LC₅₀: 0.63 mg/L (96 h); bluegill sunfish

LC₅₀: 2.49 mg/L (96 h); rainbow trout

Acute Toxicity – Aquatic Invertebrate

LC₅₀: 17µg/L (48 h); Daphnia

Acute Toxicity – Algae

EC₅₀: > 100 mg/L (72 h); *Selenastrum capricornutum*

Acute Toxicity – Bird

Acute oral LC₅₀: 1780 mg/kg (8 days); Mallard duck

Acute oral LC₅₀: 5620mg/kg (8 days); northern bobwhite quail

Environmental Fate, persistence and degradability, mobility

Methomyl has low persistence in the soil environment, with a reported half-life of approximately 14 days. Methomyl is rapidly degraded by soil microbes. Aqueous solutions of Methomyl have been

reported to decompose more rapidly on aeration, in sunlight or in alkaline media. The estimated aqueous half-life for the insecticide is 6 days in surface water and over 25 weeks in groundwater.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal: Instructions concerning the disposal of this product and its containers are given on the product label. These should be carefully followed.

SECTION 14 – TRANSPORT INFORMATION

ADG

UN Number: 2758
Proper shipping name: CARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23°C, (METHANOL, METHOMYL)
Class: Class 3, Flammable liquids
Sub Risk: Class 6.1, Toxic substance
Packaging group: II
Hazchem: 3WE

IMO-IMDG

UN Number: 2758
Proper shipping name: CARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC, flash point less than 23°C, (METHANOL, METHOMYL)
Class: Class 3, Flammable liquids
Sub Risk: Class 6.1, Toxic substance
Packaging group: II
Marine pollutant: Yes

SECTION 15 – REGULATORY INFORMATION

SUSMP Classification S7
Packaging & Labelling DANGEROUS POISON
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

SECTION 16 – OTHER INFORMATION

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail
CAS number Chemical Abstracts Service Registry Number
Hazchem Number Emergency action code of numbers and letters that provide information to emergency services especially firefighters

IARC	International Agency for Research on Cancer
NOHSC	National Occupational Health and Safety Commission
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number
GHS	Globally Harmonised System

CONTACT POINT:

Police and Fire Brigade:

Dial 000

National Poisons Information Centre:

Dial 13 11 26 (from anywhere in Australia)

For 24 hour emergency response:

Dial 0428 776 327

Ask for Russell Clark