SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name:	**Kenso Agcare Abaken 18 Insecticide/ Miticide**
Product Type:	Group 6 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 pest mites and native budworm on cotton. For the control of pest mites on pears, apples, capsicums, tomatoes, strawberries and ornamentals.

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:
Flamemable liquids – Category 4
Acute toxicity (Oral) – Category 4
Skin corrosion/ irritation – Category 2
Serious eye damage/eye irritation – Category 2/2A
Acute toxicity (Inhalation) – Category 4
Reproductive toxicity – Category 1
Specific target organ toxicity (Repeated exposure) – Category 1
Hazardous to the aquatic environment, long term – Chronic 1

GHS Signal Word: **DANGER**

Hazard statements:
H227: Combustible liquid.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H360: May damage fertility or the unborn child.
H372: Causes damage to organs through prolonged or repeated exposure if swallowed.
H410: Very toxic to aquatic life with long lasting effects.

Prevention:
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

	P260: Do not breathe dust/fume/gas/mist/vapours/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. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/ face protection.
Response:	P301 + P312: IF SWALLOWED: Call a POISON CENTRE or doctor/ physician if you feel unwell. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. 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 + P313: IF exposed or concerned: Get medical advice/attention. P312: Call a POISON CENTER/ doctor/physician if you feel unwell. P314: Get medical advice/attention if you feel unwell. P321: Specific treatment (see FIRST AID on this label) P330: Rinse mouth. P332 + P313: If skin irritation occurs: Get medical advice/attention. P337 + P313: If eye irritation persists: Get medical advice/attention. P362 + P364: Take off 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.
Storage:	P403: Store in a well-ventilated place. P405: Store locked up.
Disposal:	P501: Dispose of contents/container as specified on the registered label
SUSMP Classification:	S6
ADG Classification:	Class 6.1: Toxic substances
UN Number:	2902, PESTICIDES, LIQUID, TOXIC, N.O.S (contains ABAMECTIN)

Emergency Overview

Physical Description & colour: Clear yellowish liquid.
Odour: Characteristic odour.
Major health hazards: Poisonous if absorbed by skin contact or swallowed. Will damage eyes. Will irritate skin.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Abamectin	71751-41-2	1.8%
Liquid hydrocarbon	64742-94-5	<10%

N-Methyl-2-Pyrrolidone	872-50-4	<30%
Inert ingredients	secret	to 100%

SECTION 4 – FIRST AID MEASURES

Inhalation:	Remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.
Skin contact:	Wash contaminated skin with plenty of water. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.
Eye contact:	Irrigate with copious quantities of water for at least 15 minutes. In all cases of eye contamination it is sensible precaution to seek medical advice.
Ingestion:	If poisoning occurs, contact a doctor or Poisons Information Centre (Tel 131126)

Advice to Doctor
Treat symptomatically. No specific antidote is available.

SECTION 5 – FIRE FIGHTING MEASURES

Specific Hazard
Product is a combustible liquid, (C1)
Extinguishing Media
Recommended for large fires: foam or water spray. Recommended for small fires: dry chemical or carbon dioxide.
Fire Fighting
Combustible liquid. Material may support combustion at elevated temperatures. Sealed, overheated containers may present explosion hazard. Thermal decomposition and burning may produce toxic by-products. Contain all runoff.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills & Disposal
Clean up immediately. Wear protective equipment to prevent skin and eye contamination. Contain using sand or soil – prevent run off into drains and waterways. Use adsorbent (clay, sand or cat litter). Collect and seal in properly labelled containers 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.
Personal Protection
For appropriate personal protective equipment (PPE), refer Section 8.

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:
No value assigned for this specific material by National Occupational health and Safety Commission (Safework Australia).
Engineering Controls:
Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.
Personal Protection
Skin: When opening the container, preparing spray and using prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC gloves and goggles. For space applications, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC gloves, goggles and half facepiece respirator with dust cartridge or canister. Wash thoroughly before smoking, eating or using toilet facilities. Wash hands after use.
Eye Protection: Where potential for splash, spray or mist exists, wear chemical protective goggles or a full face shield. Emergency eye wash facilities would be located nearby. Avoid contact with the eyes.
Respiratory Protection: Generally not required. Use of a respirator may be required in certain circumstances to protect from inhalation of spray mist.
Personal Hygiene: Wash skin before eating, drinking or smoking. Shower at the end of the workday.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Clear yellowish liquid
Odour:	Characteristic odour
Boiling point (°C):	Not applicable
Vapour Pressure:	Not applicable
Specific Density:	1.01 ± 0.05
Flashpoint:	>62°C
Flammability:	Combustible Liquid, (C1)
Solubility:	Emulsify in water

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability
This material is stable in ambient conditions for a period of at least 2 years after manufacture.
Conditions to avoid
Do not leave in direct sunlight for long periods.
Hazardous Reactions
Keep away from strong oxidising agents.
Hazardous Polymerization
Hazardous polymerisation is not possible.

SECTION 11 – TOXICOLOGICAL INFORMATION

Data from laboratory studies on this product are summarized below:
Acute Toxicity – Oral
LD_{50} (rabbit) 300 mg/kg
Acute Toxicity – Dermal
LD_{50} (rat) >5000 mg/kg
Acute Toxicity – Inhalation
LC_{50} (rat) (4hr) >2.09 mg/l

Potential Health Effects

Health Effects

Acute:

Ingestion	Harmful.
Eye contact	Moderate irritating to eye. Vapors and mist can cause irritation
Skin contact	Moderate irritating to the skin
Inhalation	Low inhalation

Long Term Exposure
When this product is used according to the directions, prolonged exposure to users is not expected. In a 1 year study with dogs given oral doses of 0.25 to 1mg/kg/day, there were no changes in tissue at any dose level. However, some dogs at the 0.5 and 1 mg/kg/day levels had papillary dilation, weight loss, lethargy, tremors and recumbency. The NOEL for this study was 0.25 mg/kg/day. Similar results were seen in a 2 year study with rats fed 0.75, 1.5 or 2 mg/kg/day. No changes in the nervous or muscular systems were observed, but rats in all dosage levels exhibited body weight gains significantly higher than the controls. When mice were fed 8 mg/kg/day, the highest dose tested, for 94 weeks, the males developed dermatitis and changes in blood formation in the spleen, while females exhibited tremors and weight loss.
Abamectin has produced cleft palate in the offspring of treated mice and rabbits, but only at doses that were also toxic to the mothers. There were no birth defects in the offspring of rats given up to 1 mg/kg/day.
Abamectin is not mutagenic. Abamectin was not carcinogenic in rats of mice fed the maximum tolerated doses.

Other Information
The ADI for abamectin is set at 0.001 mg/kg/day, with corresponding NOAEL of 0.12 mg/kg/day. **ADI= Acceptable Daily Intake; NOAEL: No Observable Adverse Effect Level. Data adopted from Australia ADI List, September 2024.*

SECTION 12 – ECOLOGICAL INFORMATION

Persistence / Degradability
Abamectin was found to be degraded readily by soil microorganisms. The average half-life in soil is 5-10 hours and in water 18 hours. In addition, abamectin does not persist or accumulate in the environment.

Known Harmful Effects on the Environment
Abamectin binds tightly to soil between with rapid degradation and by soil microorganisms. No bioaccumulation.
No information is available for the product. The following information refers to the active ingredient, abamectin.

Toxicity birds
Toxic to waterfowl (Mallard duck LD_{50} =84 mg/kg)
Relatively non-toxic to upland game birds (Bobwhite quail LD_{50} > 2000 mg/kg)

Toxicity fish
Rainbow trout LD_{50} = 3.6 µg/L
Bluegill sunfish LD_{50} = 9.6 µg/L

Toxicity *Daphnia magna*
LC_{50} (48 hour) = 0.34 µg/L.

Toxic to bees.

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:	2902
Proper shipping name:	PESTICIDES, LIQUID, TOXIC, N.O.S (contains ABAMECTIN)
Class:	6.1 Toxic Substances
Packaging group:	III
Hazchem:	2X

IMO-IMDG

UN Number:	2902
Proper shipping name:	PESTICIDES, LIQUID, TOXIC, N.O.S (contains ABAMECTIN)

Class:	6.1 Toxic Substances
Packaging group:	III
Marine pollutant:	Yes

SECTION 15 – REGULATORY INFORMATION

SUSMP Classification	S6
Packaging & Labelling	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	1800 951 288 03 9573 3188