SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name:	**Kenso Agcare 570 LVE MCPA Selective Herbicide**
Product Type:	Group I Herbicide
Company Name:	Kenso Corporation (M) Sdn Bhd
Address:	Level 1, 98 Commercial Road, Teneriffe QLD 4005
Telephone Number:	(07) 3216 1188
Facsimile Number:	(07) 3216 0388
Emergency Telephone Number:	000 (Police or Fire Brigade) **13 11 26 (Poisons Information Centre)**
Use:	For selective control of certain weeds in agricultural crops.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification: Classified as hazardous according to criteria of Safe Work Australia.
Not classified as a Dangerous Good according to the ADG Code.

GHS Signal Word: **WARNING**

Hazard statements:
H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H332: Harmful if inhaled.
H410: Very toxic to aquatic life with long lasting effects.

Prevention:
P261: Avoid breathing 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 in outdoors or in a well ventilated area
P273: Avoid release to the environment.
P280: Wear protective gloves, protective clothing and eye or face protection.

Response:
P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 – Call a POISON CENTER or doctor/physician if you feel unwell.
P322: Specific measures (see FIRST AID on this label).
P330: Rinse mouth.
P363: Wash contaminated clothing before reuse.

	P391: Collect spillage.
Storage:	P405: Store locked up.
Disposal:	P501: Dispose of contents and containers as specified on the registered label.
SUSMP Classification:	S6
ADG Classification:	None allocated. Not a dangerous good.
UN Number:	None allocated.

Emergency Overview

Physical Description & colour: Brown liquid.
Odour: Characteristic solvent

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	**CAS number**	**Proportion**
MCPA (present as 2-ethylhexyl ester)	94-74-6	57%
Inert ingredients	secret	to 100%

SECTION 4 – FIRST AID MEASURES

Inhalation:	Remove to fresh air, keep warm and at rest. Give artificial respiration or oxygen if breathing is shallow or stopped. Get medical attention immediately.
Skin contact:	Remove contaminated clothing and wash affected areas or skin with soap and water. Seek medical advice if irritation develops.
Eye contact:	Hold the eyes and flush immediately with plenty of water. Seek medical advice if irritation develops.
Ingestion:	If swallowed, do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

Advice to Doctor:
Treat symptomatically. If vomiting occurs, solvent present may cause pulmonary pneumonitis.

SECTION 5 – FIRE FIGHTING MEASURES

Specific Hazard
Product is a combustible liquid, (C2)
Fire/Explosion Hazards
Dangerous Decomposition or Combustion Products
Thermal Decomposition
On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.
Extinguishing Media

If material is involved in a fire use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills & Disposal
Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal. Dispose of at a landfill in accordance with local regulations. On-site disposal of concentrate is not acceptable.
Personal Protection
For appropriate personal protective equipment (PPE), refer Section 8.
Clean-up Methods – Large Spillages
Place damaged containers in recovery bins (if available) and return to manufacturer.
Environmental Precautions
This product is a herbicide and spills can damage crops, pastures and desirable vegetation. Use earthen bunds or absorbent bunding to prevent spreading of spillage.

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

National occupational exposure limits:
No value assigned for this specific material by the National Occupational Health and Safety Commision (NOHSC Australia). ADI for MCPA is set at 0.01 mg/kg/day with corresponding NOAEL is set at 1.1 mg/kg/day.
**ADI= Acceptable Daily Intake; NOAEL: No Observable Adverse Effect Level. Data adopted from Australia ADI List, September 2019.*
Biological Limit Values:
As per the "National Model Regulations for the Control of Workplace Hazardous Substances [NOHSC: 1005 (1994)]" the ingredients in this material do not have a Biological Limit Allocated.
Engineering Measures:
Use only in well ventilated areas. Keep containers closed when not in use.
Personal Protection Equipment:
OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES.

Wear overalls, chemical goggles and impervious gloves. Available information suggests that gloves made from poly vinyl chloride (PVC) should be suitable for intermittent contact. However, due to variations in glove constructions and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. If risk of inhalation of exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1716.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Brown liquid
Odour:	Characteristic solvent odour
Boiling Point (°C):	182-202°C (for solvent present)
Vapour Pressure:	0.267 mPa @ 18°C (for MCPA 2EHE)
Specific Gravity:	1.05 ± 0.01
Flashpoint:	107°C; Firepoint 172°C.
Flammability:	Combustible liquid, (C2)
Solubility:	Emulsify in water

SECTION 10 – STABILITY AND REACTIVITY

Chemical stability
This material is stable under normal use and storage conditions. Hydrolyses at pH > 7.
Conditions to avoid
No information available.
Hazardous Reactions
Keep away from strong oxidising agents.
Hazardous Polymerization
Hazardous polymerization is not possible.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity data (On MCPA 2EHE)
Acute Toxicity – Oral
LD_{50} (rat) 1300 mg/kg
Acute Toxicity – Dermal
LD_{50} (rat) >2000 mg/kg
Acute Toxicity – Inhalation
LC_{50} (rat) (4hr) >4.5 mg/l
ReproductiveToxicity
Data indicates no reproductive effects.
Data indicates no teratogenic effects.
Mutagenicity

The weight of evidence indicates that MCPA does not present a mutagenic risk.

Carcinogenicity

The weight of the evidence is that MCPA is not carcinogenic.

Potential Health Effects

Health Effects

Acute:

Inhalation: Irritation to respiratory system

Skin contact: Cause irritation

Eye contact: Cause irritation

Ingestion: Harmful

Chronic:

Chronic Overexposure: Repeated absorption of relatively large amounts of MCPA presents a risk to the liver and kidneys.

SECTION 12 – ECOLOGICAL INFORMATION

Other Precautions

Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.

Environ. Protection

Spray drift can cause damage, read the label for more information.

Acute Toxicity – Fish

MCPA 2EHE has very low water solubility (0.1 mg/l) and rapidly hydrolyses in natural waters.
The following data is for the hydrolysis product: MCPA acid.

LC_{50} (96 hr) for rainbow trout is 50 mg/l.
LC_{50} (96 hr) for fathead minnow is >3.2 mg/l.

Acute Toxicity – Daphnia

EC50 (48hr) for daphnia is >190 mg/l for MCPA acid.

Acute Toxicity – Other Organisms

Birds: Not toxic to birds.
LD_{50} for bobwhite quail is >2250 mg/kg
Not 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

Storage and Transport:	Not a dangerous good.
UN Number (Sea Transport):	None Allocated
IMO Class/Packing Group:	None Allocated
IMO Marine Pollutant:	None Allocated
IMO Proper Shipping Name:	None Allocated
Hazchem code:	None Allocated

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	0439 933 556
	Ask for Murray Goodlich	