SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name:	**Kenso Agcare Bucko 242 Herbicide**
Product Type:	Group 4 Herbicide
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 climbing buckwheat, common sowthistle, skeleton weed, capeweed, doublegee and other broadleaf weeds in winter cereals and linseed 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.

Classification of the Hazardous Chemical:
Acute toxicity (Oral) – Category 4
Acute toxicity (Dermal) – Category 4Aspiration hazard – Category 1
Acute toxicity (Inhalation) – Category 4
Hazardous to the aquatic environment, long term – Chronic 1

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 outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/ protective clothing.

Response:
P301+P312: IF SWALLOWED: Call a POISON CENTER/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.
P312: Call a POISON CENTER/doctor/physician if you feel unwell.
P321: Specific treatment (see FIRST AID on this label)

	P330: Rinse mouth. P362+P364: Take off contaminated clothing and wash it before reuse. P391: Collect spillage.
Disposal:	P501: Dispose of contents/container as specified on the registered label
SUSMP Classification:	S5
ADG Classification:	N/A
UN Number:	N/A

Emergency Overview

Physical Description & colour: Brown to dark brown liquid.
Odour: Mild.
Major Health Hazards: No major health hazard is known.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
MCPA (present as potassium salt)	94-74-6	42%
Picloram (present as potassium salt	1918-02-1	2.6%
Inert ingredients	secret	<30%
Water	7732-18-5	to 100%

SECTION 4 – FIRST AID MEASURES

Inhalation:	If affected, remove from contaminated area to fresh air.
Skin contact:	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Obtain medical attention without delay. Wash clothing before reuse. Properly dispose of contaminated leather items, such as shoes, belts and watchbands.
Eye contact:	Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist.
Ingestion:	Do not induce vomiting. Give one cup of water or milk if available and transport to a medical facility. Do not give anything by mouth to an unconscious person.

Advice to Doctor
Due to irritant properties, swallowing may result in burns ulceration of mouth, stomach and lower gastrointestinal tract with subsequent structure. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard
Dangerous Decomposition or Combustion Products
Thermal Decomposition
Toxic, irritating vapors may be produced if product is involved in fire.
Hazardous Decomposition Products
Hydrogen chloride and nitrogen oxides may be produced if product is involved in fire.
Hazardous Reactions
Not known to occur.
Extinguishing Media
Carbon dioxide, dry chemical, foam, water fog

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills and Disposal
Extinguish sources of ignition. Do not touch or walk through spilled material. Wear a face shield or goggles, overalls buttoned to neck and wrist, chemical resistant gloves and boots. Dike area and prevent entry into waterways and drains. Absorb with material such as sand, soil or sawdust. Collect spilled product and place in sealable container for disposal. Spill residues may be cleaned using water and detergent. Contain and absorb wash water for disposal. Absorb and collect washings and place in the same sealable container for disposal.

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 day's 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:
None established
Engineering Controls:
Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.
Personal Protection:
Eye/face protection

Use chemical goggles. Eye wash fountain should be located in immediate work area.
Skin protection
Use protective clothing chemical resistant to this material. Selective of specific items such as face shield, boots, apron or full body suit will depend on the task. Remove contaminated clothing immediately, wash skin area with soap and water and launder clothing before reuse or dispose of properly.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid
Colour:	brown to black
Odour:	mild odour
Boiling Point (°C):	100°C.
Vapour Pressure:	286 x 10^{-6} mm Hg at 32°C (MCPA) 615 x 10^{-7} mm Hg at 32°C (picloram acid)
Specific Graviity:	1.210 at 20°C.
Flashpoint:	Non flammable
Solubility:	Soluble in water

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability
This product is stable under normal storage conditions.
Conditions to Avoid
None.
Incompatibilities
Avoid oxidizing materials and strong acids.
Hazardous Polymerization
Hazardous polymerization is not possible.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity data:
Acute Toxicity - Oral
LD_{50} (rat) 1876 mg/kg for MCPA acid
LD_{50} (rat) >3500 mg/kg for picloram potassium salt
Acute Toxicity -Dermal
LD_{50} (rabbit) >2000 mg/kg for MCPA acid
LD_{50} (rabbit) >2000 mg/kg for picloram potassium salt
Acute Toxicity -Inhalation
LC_{50} (rat) (4hr) >6.36 mg/l for MCPA acid
LC_{50} (rat) >1.63 mg/L for picloram potassium salt
Carcinogenicity
The weight of the evidence is that MCPA is not carcinogenic.

Potential Health Effects

Health Effects

Acute:

Skin contact: Prolonged contact may cause skin irritation with local redness. Prolonged or widespread skin contact may result in absorption of potentially harmful amounts.

Eye contact: May cause severe irritation with corneal injury which may result in permanent impairment of vision. Chemical burns may occur.

Ingestion: Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. Swallowing may result in gastrointestinal irritation or ulceration.

Other information:
The ADI for humans (MCPA) is 0.01 mg/kg/bw/day. The corresponding NOAEL is set at 1.1 mg/kg/bw/day. The ADI for humans (picloram) is 0.07 mg/kg/bw/day. The corresponding NOAEL is set at 7 mg/kg/bw/day.
**ADI= Acceptable Daily Intake; NOAEL: No Observable Adverse Effect Level. Data adopted from Australia ADI List, September 2024.*

SECTION 12 – ECOLOGICAL INFORMATION

Acute Toxicity – Fish
LC_{50} (96hr) for rainbow trout is 50 mg/l for MCPA potassium salt
LC_{50} (96hr) for rainbow trout is 26 mg/l for picloram potassium salt
Acute Toxicity – Daphnia
EC_{50} (48hr) for daphnia is >190 mg/l for MCPA potassium salt.
EC_{50} (48hr) for daphnia is 63.8 mg/l for picloram potassium salt.
Acute Toxicity – Agae
LC_{50} for algae is >392 mg/l for MCPA potassium salt
EC_{25} for algae is 52.6 mg/l for picloram potassium salt.
Acute Toxicity – Other Organisms
Not toxic to birds.
Not toxic to bees.
Known Harmful Effects on the Environment
The breakdown of picloram in soil is variable and is influenced by soil moisture, temperature and organic content. Under spill conditions or very high use rates, residues could remain in the soil up to four years, particularly in arid soils. At low application rates, under warm, moist conditions, residues decline sufficiently to allow growth of susceptible plants within twelve months. In soil, picloram is degraded by photodegradation and microbial action. In water, it is degraded by ultra-violet light with a half-life of one to forty days depending on sunlight intensity. Picloram typically remains in the top thirty centimetres of a soil profile depending on soil adsorption properties.

Environment Protection
Spray drift can cause damage, read the label for more information.
Persistence / Degradability
This material cannot be considered as readily biodegradable. Biodegradation under aerobic laboratory conditions is below detectable limits. Biodegradation rate may increase in soil and/or water with acclimation.
Other Precautions
Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.

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:	3082
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains MCPA salt, PICLORAM triisopropanolamine salt)
Class:	9
Packaging group:	III
Hazchem:	3Z
Transport and Storage:	Considered non dangerous for road and rail transport (in packaging) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.

IMO-IMDG

UN Number:	3082
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains MCPA salt, PICLORAM triisopropanolamine salt)
Class:	9
Packaging group:	III
Marine pollutant:	Yes

SECTION 15 – REGULATORY INFORMATION

SUSMP Classification	S5
Packaging & Labelling	CAUTION 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