

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name:	Kenso Agcare Kenpanil NF 360 Herbicide
Product Type:	Group C 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 post-emergence control of Barnyard Grass in Rice.

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: **DANGER**

Hazard statements:

H227: Combustible liquid.
H302: Harmful if swallowed
H304: May be fatal if swallowed and enters airways
H318: Causes serious eye damage
H336: May cause drowsiness or dizziness
H351: Suspected of causing cancer
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.
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/eye protection/ face protection/hearing protection

Response:

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.

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.

P310: Immediately call a POISON CENTER/doctor/physician.

P330: Rinse mouth.

P331: Do NOT induce vomiting.

P370 + P378: In case of fire: Use carbon dioxide, dry chemical, foam and water fog to extinguish.

P391: Collect spillage.

Storage: P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

Disposal: P501: Dispose of contents and containers as specified on the registered label.

SUSMP Classification: S5

ADG Classification: N/A

UN Number: N/A

Emergency Overview

Physical Description & colour: Brown to amber liquid.

Odour: Solvent odour

Major Health Hazards: Will irritate eyes and skin.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Propanil	709-98-8	36%
Inert ingredients	secret	<30%
Aromatic hydrocarbon	64742-94-5	to 100%

SECTION 4 – FIRST AID MEASURES

Inhalation:	If inhalation has occurred, remove from contaminated area to fresh air.
Skin contact:	If on skin, remove contaminated clothing, wash skin thoroughly with soap and water.
Eye contact:	If in eyes, hold eyelid(s) open and flush with water for at least 15 minutes. Take special care if exposed person is wearing contact lenses. Immediately call a POISON CENTRE or doctor/ physician.
Ingestion:	If swallowed, wash mouth with plenty of water. Call a POISON CENTRE (Telephone 13 11 26) or doctor/ physician if you feel unwell.

Advice to Doctor:

Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Specific Hazard

Product is a combustible liquid.

Fire/Explosion Hazards

Dangerous Decomposition or Combustion Products

Thermal Decomposition

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media

Use water fog, foam, dry agent (carbon dioxide, dry chemical powder). Ensure that no spillage enters drains or water courses.

Fire Fighting

If a significant quantity of this product is involved in a fire, call the fire brigade. Fire-fighter should wear appropriate protective equipment with self-contained breathing apparatus.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills

Clean up immediately. Wear protective equipment (see Personal Protection). Clear area of all unprotected personnel. Contain using sand or soil – prevent run off into drains and waterways. Use adsorbent (soil, sand or other suitable absorbent material). Avoid using saw dust or other combustible material. For large spill or in the absence of absorbent material, try creating a dike to stop material spreading or going into waterways. Collect and seal in properly labelled containers for disposal (see Disposal).

Disposal

Contaminated material must be disposed of in accordance with all State and/or Local regulations. Shred and bury empty packaging in a local authority landfill. If no landfill is available, bury the packaging below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty packaging and product should not be burnt.

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 establish for formulated product.

Engineering Controls

Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

Personal Protection

Product is poisonous if absorbed by skin contact, inhaled or swallowed. Will irritate eyes, nose, throat and skin. Avoid contact with eyes, skin and clothing. Do NOT inhale vapour or spray mist. When opening the container and preparing the spray, wear cotton overalls buttoned to the neck and wrists, washable hat, PVC or rubber apron, elbow-length PVC gloves, impervious footwear and face shield or goggles. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water.

After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves, face shield or goggles and contaminated clothing.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Brown to amber
Odour:	Solvent odour
Boiling Point (°C):	Not applicable
Vapour Pressure:	Not applicable
Specific gravity:	1.06 @ 25°C
Flashpoint:	70°C
Flammability:	Combustible Liquid, C1
Solubility:	Emulsify in water

SECTION 10 – STABILITY AND REACTIVITY

Reactivity

This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid

Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities

Strong oxidising agents.

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. Hydrogen chloride gas, other compounds of chlorine. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation

This product will not undergo polymerisation reactions.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity data (of propanil)

Acute Toxicity – Oral

LD₅₀ (rat): 1384 mg/kg

Acute Toxicity - Dermal

LD₅₀ (rat) = >4000 mg/kg

Acute Toxicity – Inhalation:

LC₅₀ (rats) (4hr): >4.53 mg/l

Chronic toxicity

Possible chronic health effects from exposure to Kenpanil NF 360 Herbicide are based on the active ingredient. Animal studies on chronic exposure have been undertaken on active ingredients, propanil. These studies show haematology (reduced RBC and haemoglobin concentration (Hb)) and microscopic (hemosiderin of the kidneys) changes were apparent for mid and high dose groups and to a lesser extent for the low dose group. (Source: HSDB, 26 Apr 12). Possible liver, kidney, spleen and testes toxicant. Endocrine issues - Increase of cellular response to estrogen. Suggestive evidence of carcinogenicity, but not sufficient to assess human carcinogenic potential.

Potential Health Effects

Acute:

- Inhalation:** Product is harmful and symptoms may include headache, irritation of nose and throat. Other symptoms may also become evident, but they should disappear after exposure ceased.
- Skin contact:** A skin irritant. Symptoms may include itchiness and reddening of contacted skin.
- Eye contact:** An eye-irritant. Symptoms may include stinging, reddening of eyes and watering which may become copious. Blurred vision or swelling of eyelids may also developed, lengthy exposure or delayed treatment is likely to cause permanent damage.
- Ingestion:** Harmful if swallowed. Will irritate eyes, nose and throat.

Chronic Effects:

Possible chronic health effects from exposure to Kenpanil NF 360 Herbicide are based on the active ingredient. Animal studies on chronic exposure have been undertaken on active ingredients, propanil. These studies show haematology (reduced RBC and haemoglobin concentration (Hb)) and microscopic (hemosiderin of the kidneys) changes were apparent for mid and high dose groups and to a lesser extent for the low dose group. (Source: HSDB, 26 Apr 12). Suggestive evidence of carcinogenicity, but not sufficient to assess human carcinogenic potential.

Other Information

The Australian Acceptable Daily Intake (ADI) for propanil is set at 0.2 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 20 mg/kg/day.

*ADI= Acceptable Daily Intake; NOAEL: No Observable Adverse Effect Level. Data adopted from Australia ADI List, March 2021.

SECTION 12 – ECOLOGICAL INFORMATION

Very toxic to aquatic organisms with long lasting effects.

Acute Toxicity – Bird

LD₅₀ mallard duck: 375 mg/kg

LD₅₀ bobwhite quail: 196 mg/kg

Acute Toxicity – Fish

LC₅₀ carp: 8 – 11 mg/L

Acute Toxicity – Crustaceans

LC₅₀ Daphnia: 4.8 mg/L

Acute Toxicity – Other organisms

Algae: EC₅₀: 0.11 mg/L

Earthworms: LC₅₀ (14days): 734 mg/kg

Bees: LD₅₀: >100 µg/bee

ENVIRONMENTAL FATE

In soil, Propanil rapid microbial degradation to the aniline derivatives occurs. Duration of activity in warm, moist condition takes only a few days. Degradation products are propionate, which is rapidly metabolised to CO₂, and 3,4-dichloroaniline, which is bound (80% in 27h) to the soil. K_{oc} 239-800.

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	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.
UN Number (Sea Transport):	3082
IMO Class/Packing Group:	Class 9; Packing Group III
IMO Marine Pollutant:	Marine Pollutant
IMO Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Propanil)
Hazchem code:	3Z

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	0439 933 556 Ask for Murray Goodlich