

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Kenso Agcare Pluto 800 Herbicide
Product Type: Group 15 Herbicide
Company Name: Kenso Corporation (M) Sdn Bhd
Address: Level 1, 98 Commercial Road, Teneriffe QLD 4005
Telephone Number: (07) 3216 1188
Emergency Telephone Number: 000 (Police or Fire Brigade)
13 11 26 (Poisons Information Centre)
Use: For the control of barnyard grass and certain annual sedges including dirty Dora in rice as per the DIRECTIONS FOR USE Table.

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: Flammable liquids – Category 4
Aspiration hazard – Category 1
Skin corrosion/irritation – Category 2
Serious eye damage/eye irritation – Category 2//2A
Specific target organ toxicity (Repeated exposure) – Category 2
Hazardous to the aquatic environment, long-term – Chronic 1

GHS Signal Word: **DANGER**

Hazard statements: H227: Combustible liquid
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation
H319: Causes serious eye irritation
H373: May cause damage to organs through prolonged or repeated exposure.

Prevention: 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.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P264: Wash contacted areas thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/ face protection.

Response: P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/ doctor/physician.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314: Get medical advice/attention if you feel unwell.

P321: Specific treatment (see FIRST AID on this label)

P331: Do not induce vomiting.

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 water fog, foam, dry agent (carbon dioxide, dry chemical powder) 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: S5

ADG Classification: N/A

UN Number: N/A

Emergency Overview

Physical Description & colour: Clear amber liquid.

Odour: Aromatic hydrocarbon odour.

Major Health Hazards: This product also contains a hydrocarbon solvent. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Thiobencarb	28249-77-6	80%
Inert ingredients	secret	<15%
Liquid hydrocarbon	64742-94-5	to 100%

SECTION 4 – FIRST AID MEASURES

Inhalation:	Remove to fresh air until recovered. See a doctor if discomfort or irritation continues.
Skin contact:	Remove contaminated clothing, wash skin with plenty of soap and water. See a doctor if any signs or symptoms described in this document occur. Discard contaminated non-waterproof shoes and boots.
Eye contact:	Flush eyes immediately with plenty of fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. However, if irritation persists, see a doctor.
Ingestion:	If swallowed, do not induce vomiting; seek medical advice immediately.

Advice to Doctor

For local contamination, treatment should be symptomatic after decontamination. For systemic poisoning, treatment should be symptomatic and supportive.

SECTION 5 – FIRE FIGHTING MEASURES

Specific Hazard

Product is a combustible liquid, (C1)

Fire/Explosion Hazard

Dangerous Decomposition or Combustion Products

Thermal Decomposition

There is little risk of an explosion from this product if commercial quantities are involved in a fire.

Extinguishing Media

Preferred extinguishing media are carbon dioxide, dry chemical, foam, water fog.

Fire Fighting

When fighting fires involving significant quantities of this product, wear a splash suit complete with self contained breathing apparatus. Toxic decomposition products may be produced in a fire. If it can be done safely, remove intact containers from exposure to fire. Otherwise, use water spray to cool them.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills and Disposal

Contain spill and absorb with sand or proprietary absorbent (vermiculite). Prevent from entering drains, waterways or sewers. Clean up spill immediately. Collect in sealed open-top containers for disposal. Triple rinse containers, and add rinsings to the spray tank, then offer container for recycling / reconditioning, or puncture top, sites and bottom and dispose of in landfill in accordance with local regulations. On-site disposal of concentrate is not acceptable.

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 Limits

No exposure limits have been set for this product.

Engineering Control

Control process conditions to avoid contact. Use local exhaust ventilation during manufacturing operations. Use in a well-ventilated area only.

Protective Equipment

Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including elbow-length PVC gloves and face shield. If product contacts skin, immediately wash area with soap and water. After each use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. Wash gloves, face shield and contaminated clothing before reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Clear amber liquid
Odour:	Aromatic Hydrocarbon
pH:	6.5 to 9 in 1% solution
Melting Point (°C):	3.3 °C
Boiling Point (°C):	153.3 °C
Specific Gravity:	1.10
Vapour Pressure:	2.39 mPa @ 23 °C
Flammability:	Combustible liquid, (C1)
Solubility	Emulsify in water
Vapour density	N/A

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

Avoid sources of ignition and extreme heat.

Incompatibilities

Strong acids, strong bases, strong oxidising agents.

Fire Decomposition

May produce oxides of carbon, nitrogen and sulphur if burnt.

Polymerisation

This product will not undergo polymerisation reactions.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity – Oral

LD₅₀ rat: >1414 mg/kg (male)

LD₅₀ rat: 1231 mg/kg (female)

Acute Toxicity – Dermal

LD₅₀ rat: >2000 mg/kg

Acute Toxicity – Inhalation

LC₅₀ rat: 5.7 mg/L (male) (4h)

LC₅₀ rat: 5.2 mg/L (female) (4h)

Skin irritation:

Mildly to moderately irritating (rabbit)

Eye irritation

Moderately irritating (rabbit)

Sensitisation

Not sensitising (guinea pig)

Potential Health Effects

Acute:

Ingestion: Small amount of this product aspirated into respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema.

Inhalation: Product is expected to have low toxicity by the inhalation route. However, high vapour concentrations may be irritating to the respiratory tract, may cause headaches, drowsiness and dizziness, could be anaesthetic and may have other central nervous system effects.

Skin contact: This product is expected to cause moderate skin irritation.

Eye contact: Will cause irritation.

Chronic:

Thiobencarb is non-mutagenic, non-teratogenic and non-ocrogenic. Frequent or prolonged contact with the hydrocarbon solvent in this product may defat and dry the skin, leading to discomfort and dermatitis.

Other information:

The ADI for Thiobencarb is set at 0.01mg/kg/day. The corresponding NOAEL is set at 1mg/kg/day.

*ADI= *Acceptable Daily Intake*; NOAEL: *No Observable Adverse Effect Level*. Data adopted from *Australia ADI List, December 2025*.

SECTION 12 – ECOLOGICAL INFORMATION

Very toxic to aquatic organisms. Low toxicity to birds and bees.

Birds

Acute oral LD₅₀ for hens: 2629 mg/kg

Acute oral LD₅₀ for bobwhite quail: 7800 mg/kg

Daphnia

LC₅₀ (48 h): 1.1 mg/L

Algae

EC₅₀ (72h) for Pseudokirchneriella subcapitata 0.038 mg/L,
EC₅₀ (72h) for Selenastrum capricornutum 0.017.

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.
DO NOT drain rice water into regional drains within the withholding period after Pluto 800 application as defined by the NSW Environment Protection Authority (EPA) or the local irrigation authority- refer to product label.

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 THIOBENCARB)
Class: 9
Packaging group: III
Hazchem •3Z
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.

IMO-IMDG

UN Number: 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains THIOBENCARB)
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