

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Kenso Agcare Pluto 800 Herbicide
Product Type: Group J Herbicide
Company Name: Kenso Corporation (M) Sdn Bhd
Address: Unit 3C/ 59, Oxford Street, Bulimba Queensland 4171
Telephone Number: (07) 3217 9788
Facsimile Number: (07) 3217 9733
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.

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
Risk Phrases: R22/36/ Harmful if swallowed. Irritating to eyes and skin
R65 Harmful: May cause lung damage if swallowed
Safety Phrases: S20/25 When using, do not eat or drink. Avoid contact with eyes.
SUSDP 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.

Potential Health Effects

Acute:

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

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

Inhaled: 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.

Eye: Will cause irritation.

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

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Thiobencarb	28249-77-6	80 % w/v
Inert ingredients	secret	~10 % w/w
Hydrocarbon solvent	64742-94-5	To 100%

SECTION 4 – FIRST AID MEASURES

Swallowed:	If swallowed, do not induce vomiting; seek medical advice immediately.
Skin:	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.
Eyes:	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.
Inhaled:	Remove to fresh air until recovered. See a doctor if discomfort or irritation continues.

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 and Explosion Hazards

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)
Flammability Limits:	N/A
Solubility	N/A
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:

Oral toxicity:

LD₅₀ rat: >1414 mg/kg (male)

LD₅₀ rat: 1231 mg/kg (female)

Dermal toxicity:

LD₅₀ rat: >2000 mg/kg

Inhalation toxicity:

Inhalation LC₅₀ rat: 5.7 mg/L (male) (4h)

Inhalation 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)

SECTION 12 – ECOLOGICAL INFORMATION

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

Birds Acute oral LD₅₀ for hens: 2629, bobwhite quail 7800

Daphnia LC₅₀ (48 h) 1.1 mg/L

Algae E_bC₅₀ (72h) for Pseudokirchneriella subcapitata 0.038 mg/L, 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

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 thiobencarb)

SECTION 15 – REGULATORY INFORMATION

Poison schedule

S5

Packaging & Labelling

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

AICS (Australia)

All of the components in this product are listed on the Australian Inventory of Chemical Substances.

SECTION 16 – OTHER INFORMATION

This MSDS contains only safety-related information. For other data see product literature.

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