

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Kenso Agcare Triclopyr 600 Herbicide
Product Type: Group I 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 a range of woody weeds and melons.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification Hazardous according to the criteria of NOHSC.

Risk Phrase(s) R22 Harmful if swallowed.
R36 Irritating to eyes.
R43 May cause sensitization by skin contact.

Safety Phrase(s) S13 Keep away from food, drink and animal feeding stuffs.
S2 Keep out of reach of children.
S24/25 Avoid contact with skin and eyes.
S46 If swallowed, seek medical advice immediately and show this container or label.

Other Information Poisons Schedule S6

Emergency Overview

Physical Description & colour: Amber liquid.
Odour: Aromatic hydrocarbon odour.

Potential Health Effects

Health Effects No LD₅₀ information is available for this product.

Acute:

Swallowed: The material is moderately discomforting to the gastro-intestinal tract and may be harmful if swallowed in large quantity. If liquid enters lungs may cause lung damage due to chemical pneumonia, a condition caused by solvents.

Eye: Cause irritation

Skin: Cause irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Inhaled: Irritation to respiratory system

Chronic:

In extreme cases the solvent present may adversely effect liver and kidney.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Triclopyr butoxyethyl ester	64700-56-7	60 % w/v
Inert ingredients	secret	To 100 % w/v

SECTION 4 – FIRST AID MEASURES

Swallowed	If swallowed, and if more than 15 minutes from a hospital induce vomiting, preferably using Ipecac Syrup APF. Seek medical advice immediately.
Eye	Hold the eyes and flush immediately with plenty of water. Seek medical advice if irritation develops.
Skin	Remove contaminated clothing and wash affected areas or skin with soap and water. Seek medical advice if irritation develops.
Inhaled	Remove to fresh air, keep warm and at rest. Give artificial respiration or oxygen if breathing is shallow or stopped. Get medical attention immediately.

Advice to Doctor:

Treatment is symptomatic.

If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard

Dangerous decomposition or Combustion Products

Thermal decomposition

Combustible liquid. May produce irritating vapours under fire conditions.

Hazardous decomposition products

Nitrogen oxides, hydrogen chloride and phosgene may be evolved when material is involved in fires.

Hazardous reactions

Avoid acids, bases and oxidising material.

Extinguishing Media

Extinguish fire with foam, dry powder, carbon dioxide or water spray.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills and Disposal

Ensure suitable personal protection (including respiratory protection) during removal of spillage. Contain spill and absorb with sand or other absorbent material. Do not allow to enter drains, sewers and watercourses. Collect in sealed open top container for disposal. Triple rinse containers, add rinsings to spray tanks and send containers for recycling or if not recycling, break, crush or puncture and bury empty containers in a local authority landfill or in accordance with local, state or federal regulation. Do not dispose of undiluted chemicals on site.

SECTION 7 – HANDLING AND STORAGE

Storage

Store in the closed, original container in a well-ventilated area. Do not store for prolonged periods in direct sunlight. Classified as a C1 (Combustible Liquid) for the purpose of storage and handling in accordance with the requirements of AS1940. Refer to the State regulations for storage and transport requirements.

Transport

Considered non-hazardous by Australian Code for the Transport of Dangerous Goods by Road and Rail.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:

None established for formulated product

Ingredient	TWA mg/m ³
Triclopyr acid	4

Engineering Controls:

Well ventilated

Personal Protection:

Avoid contact with eyes and skin. Do not inhale spray mist. When preparing spray solution, wear PVC/rubber apron or cotton overalls buttoned to the neck and wrist, elbow-length PVC gloves and goggles or face-shield. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face and contaminated clothing.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid
Colour:	amber
Odour:	Aromatic odour
Boiling point (°C):	>200 °C
Vapour Pressure:	Not available
Flashpoint:	95 °C
Flammability Limits:	Non-flammable
Specific Density:	1.20 ± 0.01
Water Solubility	Forms emulsion

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions.
Hazardous Polymerization:	Hazardous polymerisation is not possible.

SECTION 11 – TOXICOLOGICAL INFORMATION

Carcinogenicity

Triclopyr has been assessed in animals and some data exists that triclopyr is a substance which causes some concern for humans owing to possible carcinogenic effects from long term exposure, but in respect of which the available information is not adequate for making a satisfactory assessment.

Acute Toxicity – Oral	LD ₅₀ (rat): 803 mg/kg for triclopyr butoxyethyl ester
Acute Toxicity – Dermal	LD ₅₀ (rabbit): >2000 mg/kg for triclopyr butoxyethyl ester

Acute Toxicity – Inhalation LC₅₀ (rat) (4hr): >4.8 mg/l for triclopyr butoxyethyl ester

Other Information

The Australian Acceptable Daily Intake (ADI) for triclopyr for a human is 0.005 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.5 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, 'ADI List', TGA, June 2006).

SECTION 12 – ECOLOGICAL INFORMATION

Persistence / Degradability

Triclopyr butoxyethyl ester is rapidly hydrolysed to triclopyr acid in soil and water.

Other Precautions

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

Environmental Protection

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

Marine pollutant.

Acute Toxicity – Fish

The following is data for the active ingredient, triclopyr as the butoxyethyl ester.

LC₅₀ (96 hr) for the most sensitive species tested is 0.31 mg/l.

Acute Toxicity – Daphnia

EC₅₀ (48 hr) for daphnia is 0.66 mg/l for triclopyr butoxyethyl ester.

Acute Toxicity – Algae

LC₅₀ (48hr) for algae is 0.193 mg/l.

Acute Toxicity – Other Organisms

Bees: Not toxic to bees. LD₅₀ >100 µg/bee.

LD₅₀ for bobwhite quail is 735 mg/kg for triclopyr butoxyethyl ester

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

UN Number:	None Allocated
Proper Shipping Name:	None Allocated
SUSDP Classification:	S6
ADG Class:	None Allocated
Hazchem Code:	None Allocated
Packing Group:	None Allocated

SECTION 15 – REGULATORY INFORMATION

SUSDP Classification	S6
Packaging &	POISON

Labelling	KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Hazard Category	Harmful, Irritant
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.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS	Australian Inventory of Chemical Substances
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
SUSDP	Standard for the Uniform Scheduling of Drugs & Poisons
UN Number	United Nations Number

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