

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Triclopyr 600 Herbicide
Company Name: Kenso Corporation (M) Sdn Bhd
Address: Office A, 49B, Apollo Drive, Rosedale, Auckland 063 NZ
Telephone Number: (09) 410 0861
Emergency Telephone Number: (24 Hours) 0800 734 607
National Poisons & Hazchem Information Centre : 0800 POISON (0800 764 766)
Use: For the control of gorse, broom, and a range of other brushweeds.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard classification: 6.1D, 6.3B, 6.4A, 6.5B, 6.9B, 9.1A, 9.2A, 9.3C
Priority Identifier: HARMFUL
KEEP OUT OF REACH OF CHILDREN
Secondary Identifiers: 6.1D = Harmful if swallowed
6.3B = Irritating to skin
6.4A = Irritating to eyes
6.5B = May cause sensitisation by skin contact
6.9B = Danger of serious damage to health by prolonged exposure
9.1A = Very toxic to aquatic organisms
9.2A = Very toxic in the soil
9.3C = Harmful to terrestrial vertebrates

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, do not induce vomiting; seek medical advice immediately.
Eye	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. Wash contaminated clothing before re-wearing.
Skin	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
Treat symptomatically.

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

Contain spill and absorb with sand or proprietary absorbent (vermiculite). Prevent from entering drains, waterways or sewers. Collect in sealed open top containers for disposal. The product is an herbicide and spills should be contained. The product is relatively toxic to fish and hence should be kept from entering water bodies. Triple rinse containers, add rinsate to the spray tank, then offer container for recycling/reconditioning, or puncture top, sides and bottom and dispose off in landfill in accordance with local regulations. On-site disposal off concentrate is not acceptable.

SECTION 7 – HANDLING AND STORAGE

Store in the original container, tightly closed, away from food, seeds, fertilisers and pesticides. Keep out of reach of children. After handling, remove protective clothing and equipment, wash hands before eating, drinking, chewing gum, smoking or using toilet. See product label for further handling and storage precautions.

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 LD₅₀ (rat): 803 mg/kg for triclopyr butoxyethyl ester
Acute Toxicity – Dermal LD₅₀ (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 (Sea Transport): 3082

IMO Proper Shipping: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Triclopyr), Class 9, Packing Group III.

SECTION 15 – REGULATORY INFORMATION

HSNO Approval Number: HSR000829

HSNO Controls (inc. Tracking and Record Keeping):

See <http://www.epa.govt.nz> for controls.

ACVM Registration: P8711

ACVM Controls:

See www.footsafety.govt.nz for registration conditions.

SECTION 16 – OTHER INFORMATION

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

CONTACT POINT:

Police and Fire Service:

Dial 111

National Poisons & Hazchem

Dial 0800 POISON (0800 764 766)

Information Centre: