

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Trifluralin 480 Selective Herbicide
Company Name: Kenso Corporation (M) Sdn Bhd
Address: 2 Bond Crescent, Forrest Hill,
Auckland 0620 New Zealand
Telephone Number: (09) 410 0861
Hazardous Substances
Emergency Telephone Number: 0800 CHEMCALL (0800 243 622)
National Poison
Information Centre: 0800 POISON (0800 764 766)
Use: A selective soil incorporated herbicide for the pre-emergence control of certain annual grasses and broadleaf weeds in agricultural and horticultural crops.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard classification: 3.1D, 6.1D, 6.3B, 6.4A, 6.5B, 6.9A, 9.1A, 9.2A
Priority Identifier: HARMFUL
ECOTOXIC
KEEP OUT OF REACH OF CHILDREN
Secondary Identifiers: 3.1D = Combustible liquid – keep away from naked flame.
6.1D = May be harmful if swallowed, inhaled or absorbed through the skin.
6.3B = Harmful – may cause skin irritation.
6.4A = Harmful – may cause eye irritation.
6.5B = May cause sensitisation by skin contact
6.9A = Toxic – presumed to/may cause target organ damage from repeated oral exposure at high doses.
9.1A = Very toxic to aquatic organisms
9.2A = Very toxic to the soil environment.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Trifluralin	1582-09-08	50.53%w/v
Other ingredients	secret	Up to 100%w/w

SECTION 4 – FIRST AID MEASURES

Swallowed	If swallowed, DO NOT induce vomiting. Seek medical advice or contact Poisons Information Centre 0800 764 766
Eye	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open.
Skin	Remove contaminated clothing. Wash affected areas or skin thoroughly with soap and water. Seek medical advice if irritation develops. Thoroughly decontaminate and launder clothing before reuse.
Inhaled	Remove to fresh air until recovered. If symptoms persist, seek medical advice.

Advice to Doctor
Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard:	Non-Flammable (but will be combustible in a fire).
HAZCHEM Code:	3Z
ERP Guide No:	47
Extinguishing Media:	Water spray, foam, dry chemical or CO ₂ . Avoid water jet.
Fire Fighting Instructions:	During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills and Disposal

Contain spill and absorb with sand or proprietary inorganic absorbent (vermiculite). Prevent from entering drains, waterways or sewers. Collect in sealed open top containers for disposal. The product is a 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 of 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, human and animal health products/remedies, seeds, fertilisers, insecticides, fungicides and plant health products.. 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

Engineering Controls

Handle in well ventilated areas, generally natural ventilation is adequate.

Personal Protective Equipment

When opening the container, preparing spray and using the prepared spray wear chemical resistant coveralls buttoned to the neck and wrist and elbow-length nitrile gloves, goggles and respiratory protection to at least organic vapour protection level

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Orangey Liquid
Odour:	Characteristic odour
Boiling Point:	Not available
Flash Point:	>93°C
Auto ignition Temperature:	Not available
Explosive Limits:	Not available
Density:	1.08 g/cm ³ at 20°C
Vapour Pressure:	Not available
Vapour Density:	> 1 (heavier than air)
Solubility in Water:	Emulsifiable
pH:	6.0 – 8.0
Oxidising Properties:	Not an oxidizer
Corrosive Properties:	Not a corrosive

SECTION 10 – STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Incompatibility:	Avoid mixing with strong acids, alkalis, and oxidizing agents such as chlorine compounds, ammonium nitrate, etc.
Decomposition:	Decomposition will not occur under normal conditions.
Dangerous Reactions:	Prolonged reaction with water can cause slow decomposition and formation of acid, which may corrode metal containers. If part stored, do not add water. Products arising from combustion or thermal decomposition may be toxic, corrosive or flammable.

SECTION 11 – TOXICOLOGICAL INFORMATION

This section describes effects which could occur if this material is not handled in accordance with this data sheet.

Swallowed:	Nausea, vomiting, diarrhea and gastrointestinal discomfort. The solvent in this product may cause bronchopneumonia or pulmonary oedema if aspirated into the lungs from ingestion or from vomiting.
Eye:	Irritation.
Skin:	Mild Irritation. Prolonged or repeated contact may result in degreasing of the skin and dermatitis. Contact may induce an allergic response in susceptible individuals.
Inhalation:	Irritation, headache, dizziness, nausea, vomiting, respiratory irritation.
Acute Toxicity:	Acute Oral LD ₅₀ (Rat) 1414 mg/kg
(Active Ingredient)	Acute Percutaneous LD ₅₀ (Rat) > 2000 mg/kg Inhalation LC ₅₀ (4 hr) (Rat) > 5.04 mg/l
Sensitisation Effects:	Skin sensitisation (allergy) may occur in some individuals
Mutagenic Effects:	None
Carcinogenic Effects:	None
Reproductive Effects:	None
Teratogenic (Birth) Effects:	None
Systemic Effects:	Ingestion of trifluralin at high doses is damaging to the blood and hematopoietic (blood cell production) system

SECTION 12 – ECOLOGICAL INFORMATION

This section describes effects which could occur if this material is not handled in accordance with this data sheet.

The following information is presented in respect of the active ingredient:

Ecotoxic Effects:	Acute Oral LD ₅₀ (Bobwhite quail) > 2000 mg/kg LC ₅₀ (96 hr) (Rainbow trout) 0.09 mg/l EC ₅₀ (7 d) (Algae) 12.2 mg/l Non toxic to bees and earthworms
Environmental Fate:	Biodegradable. DT ₅₀ (soil) 25 – 201 days.
Partition Co-Efficient (Kow):	LogP = 4.83 (high)
Environmental Exposure Limit:	None established.

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 TRIFLURALIN 48%), Class 9, Packaging group III

SECTION 15 – REGULATORY INFORMATION

HSNO Approval Number: HSR000830

HSNO Controls (inc. Tracking and Record Keeping). See <http://www.epa.govt.nz> for controls.

ACVM Registration: P9014

ACVM Controls: See www.footsafety.govt.nz for registration conditions.

SECTION 16 – OTHER INFORMATION

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

CONTACT POINT:

Police and Fire Service:

Dial 111

National Poisons Information Centre:

Dial 0800 POISON (0800 764 766)

Hazardous Substances

Emergency Telephone Number:

Dial 0800 CHEMCALL (0800 243 622)