

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Kenso Agcare Traktion 400 WG Herbicide
Product Type: Group A 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 wild oats and annual ryegrass and suppression of annual phalaris in wheat, barley, rye, and triticale as specified in the DIRECTIONS FOR USE table

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Tralkoxydim	87820-88-0	40 % w/w
Other non hazardous ingredients	secret	To 100 % w/w

SECTION 3 – HAZARDS IDENTIFICATION

Hazard Classification: Hazardous according to criteria of NOHSC Australia.
Risk Phrase: R22 Harmful if swallowed.
Safety Phrase: S13 Keep away from food, drink and animal feeding stuffs.
S2 Keep out of reach of children.
S46 If swallowed, seek medical advice immediately and show this container or label.
SUSDP Classification: S5
ADG Classification: None allocated
UN Number: None allocated

Emergency Overview

Physical Description & colour: Blue granules
Major Health Hazards: Harmful by inhalation, in contact with skin, and if swallowed, eye irritant.

Potential Health Effects

Health Effects

Acute:

Swallowed: Possible symptoms of exposure included nausea, vomiting and central nervous system depression.

Eye: May cause irritation.

Skin: Repeated or prolonged exposure may cause irritant contact dermatitis.

Inhaled: May cause the irritation to the respiratory tract.

Chronic:

Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

SECTION 4 – FIRST AID MEASURES

Ingestion:	If swallowed, rinse mouth and drink plenty of water. If poisoning occurs, contact a doctor or Poisons Information Centre.
Skin:	Remove contaminated clothing and decontaminate them before reuse or discard. Wash affected area thoroughly with soap and water.
Eyes:	Flush eyes immediately with plenty of fresh water for at least 20 minutes or until the product is removed, while holding the eyelids open. However, if irritation persists, see a doctor. Take special care if exposed person is wearing contact lens.
Inhaled:	Remove to fresh air until recovered. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on doctor's advice. DO NOT allow victim to move about unnecessarily. Symptoms of pulmonary oedema can be delayed up to 48 hours after exposure.

Advice to Doctor

Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire and Explosion Hazards:

Combustible solid. If involved in a fire, it will emit oxides of carbon, oxides of nitrogen and possibly oxide of sulfur.

Extinguishing Media: Water fog, foam, carbon dioxide or dry chemical.

Protective Equipment: Breathable air apparatus should be worn when fighting a fire in which this product is involved.

Other Information: Prevent fire water from entering drains or water bodies.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills & Disposal: Recover the product by sweeping up or vacuuming without raising dust. Collect spilled material and waste in sealable open-top type containers for disposal. On-site disposal of concentrate is not acceptable.

Personal Protection: For appropriate personal protective equipment (PPE), refer Section 8.

Environmental Precautions: This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

SECTION 7 – HANDLING AND STORAGE

Handling: Avoid generating dusts while handling the product and mixing. If dusts are generated, it is advisable to wear a dust mask, refer Section 8.

Storage: Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

National Exposure Standards:

No exposure standard for this product has been set, however, an exposure standard has been set for talc at 2.5 mg/m³. The manufacturer has recommended the following exposure standard for tralkoxydim: TLV (TWA) 3 mg/m³, STEL - mg/m³.

Engineering Controls:

Handle in well ventilated areas, generally natural ventilation is adequate. Avoid generating and inhaling dusts.

Personal Protection:

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

Requirements Concerning Special Training:

NSW regulations require that people who use pesticides in their job or business must have training in the application of the materials. By 1st September, 2005 all users must have received such training.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	granules
Colour:	blue granules
Melting point (°C):	99 – 104 °C for tralkoxydim
Specific Density:	1.16
Vapour Pressure:	3.7 x 10 ⁻⁴ mPa (tralkoxydim)
Flammability:	Combustible
Water Solubility	Disperse in water

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Hazardous Polymerization: Hazardous polymerisation is not possible.

Conditions to Avoid: Tralkoxydim (before formulation) has exhibited exothermic decomposition at around 100°C. Avoid heating the product to high temperatures.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity – Oral

The following data is for the active ingredient, tralkoxydim.

LD₅₀ (rat, male) 1258 mg/kg

LD₅₀ (rat, female) 934 mg/kg

Acute Toxicity – Dermal

LD₅₀ (rat) >2000 mg/kg for tralkoxydim

Acute Toxicity – Inhalation

LC₅₀ (rat) (4hr) >3.5 mg/l

Other Information The Australian Acceptable Daily Intake (ADI) for tralkoxydim 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, December 2004).

SECTION 12 – ECOLOGICAL INFORMATION

Environmental Protection

Spray drift should be avoided, read the label for more information.

Persistence / Degradability

Average field half life of tralkoxydim under aerobic conditions is 2 - 5 days.

Acute Toxicity – Fish

The following is data for the active ingredient, tralkoxydim.

LC₅₀ (96 hr) for rainbow trout is >7.2 mg/l

LC₅₀ (96 hr) for bluegill sunfish is >6.1 mg/l.

Acute Toxicity – Daphnia

EC₅₀ (48 hr) for daphnia is >175 mg/l for tralkoxydim.

Acute Toxicity – Algae

EC₅₀ (120hr) for green algae 7.6 mg/l.

Acute Toxicity – Other Organisms

Birds: Not toxic to birds. LD₅₀ for mallard ducks is >3020 mg/kg

Bees: Not toxic to bees. LD₅₀ 54 µg/bee.

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
SUSDP Classification: S5
ADG Class: None allocated
Hazchem Code: None allocated
Packing Group: None allocated

SECTION 15 – REGULATORY INFORMATION

SUSDP Classification S5
Packaging & Labelling CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Hazard Category Harmful
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
NOS Not otherwise specified
NTP National Toxicology Program (USA)
R-Phrase Risk Phrase
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