SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name:	**Kenso Agcare Ken-Chlor 750** **Water Dispersible Granule Herbicide**
Product Type:	Group 2 Herbicide
Company Name:	Kenso Corporation (M) Sdn Bhd
Address:	Level 1, 98 Commercial Road, Teneriffe QLD 4005
Telephone Number:	(07) 3216 1188
Emergency Telephone Number:	000 (Police or Fire Brigade) **13 11 26 (Poisons Information Centre)**
Use:	For the control of Annual (Wimmera) Ryegrass and certain broadleaved weeds in Wheat, Barley, Oats, Cereal Rye and Triticale.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification:	Classified as non-hazardous according to criteria of Safe Work Australia. Not classified as a Dangerous Good according to the ADG Code.
	
Classification of the Hazardous Chemical:	Hazardous to the aquatic environment, long-term – Chronic 1
GHS Signal Word:	**WARNING**
Hazard statements:	H410: Very toxic to aquatic life with long lasting effects.
Prevention:	P273: Avoid release to the environment.
Response:	P391: Collect spillage.
Disposal:	P501: Dispose of contents and containers as specified on the registered label.
SUSMP Classification:	S5
ADG Classification:	Not a dangerous good.
UN Number:	None allocated.

Emergency Overview

Physical Description & colour: White to off-white granulated solid.
Odour: No odour.
Major Health Hazards: Toxicity described in animals from the administration of a single dose of Chlorsulfuron include lung changes, weakness and other nonspecific effects. Repeated dosingcaused decreased weight gain, and haematological and clinical chemical changes. Long-term dosing resulted in decreased body weight gain, and slight haematological changes.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Chlorsulfuron	64902-72-3	75%
Inert ingredients	secret	to 100%

SECTION 4 – FIRST AID MEASURES

Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
Skin contact:	Flush in water after excessive contact.
Eye contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.
Ingestion:	If swallowed; immediately give 2 glasses of water and induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.

Advice to Doctor
No specific requirements. Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard
Dangerous Decomposition or Combustion Products
Thermal Decomposition
Stable at normal temperatures and storage conditions. Decomposes with heat. Polymerization will not occur. Flammable limit in Air, % by volume; LEL 0.090 g/L.
Extinguishing Media
Water spray and dry chemical.
Fire Fighting
Wear self-contained breathing apparatus. Use water spray. Cool tanker/container with water spray. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the contamination hazard.

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.
Personal Protection
Avoid skin and eye contact. Avoid inhaling the vapour, or spray mist. After use and before eating, drinking, or smoking, wash hands, arms and face thoroughly with soap and water.

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 day's 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 standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts not otherwise specified is 10 mg/m3.
Respiratory Protection
Do not inhale spray mist. Wear a class P1 dust mask if dusts are present.
Personal Protective Equipment
It is good practice to wear suitable personal protective equipment (PPE). When opening the container, preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, nitrile or elbow-length PVC gloves and face shield or goggles and disposable dust mask.
Engineering Controls
Handle in well ventilated areas, generally natural ventilation is adequate.
Hygiene Measures
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.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	granules
Colour:	off-white to tan
Melting point (°C):	Not applicable
Vapour Pressure:	Not applicable
Specific Density:	0.59 $\pm$ 0.01
Solubility:	Dispersible

SECTION 10 – STABILITY AND REACTIVITY

Stability
Hydrolyses at pH <7.
Hazardous Polymerization

Hazardous polymerisation is not possible.
Hazardous Reaction
Keep away from strong oxidising agents.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicology Information
No harmful effects are expected if the precautions on the label and this SDS are followed.
Acute Toxicity – Oral
LD_{50} (male rats) 5,545 mg/kg for chlorsulfuron
Acute Toxicity – Inhalation
LC_{50} (rat) (4hr) >5.9 mg/l for chlorsulfuron

Potential Health Effects

Health Effects No LD_{50} information is available for this product.

Acute:

Inhalation: May irritate the throat but no data available.

Skin contact: Slightly to moderately toxic by contact. Not a primary skin irritant, or a sensitiser.

Eye contact: Irritation (rabbit): Administration of 10mg to rabbit's eye produced very mild temporary conjunctival irritation and slight corneal cloudiness. All effects reversed in 4 days.

Ingestion: Very low toxicity by ingestion.

Others: No data available to confidently predict the effects of overexposure to humans, however based on animal studies, overexposure by inhalation, ingestion, or skin or eye contact may initially include eye irritation with discomfort, tearing, or blurring of vision, or irritation of the upper respiratory passages.

Chronic: Chlorsulfuron
Administration of 0, 100, 500 and 2500 ppm chlorsulfuron to male and female young adult dogs for 6 months produced a no-observable-effect level (NOEL) of 2,500 ppm in the diet. No compound related changes in nutritional, clinical, biochemical, gross, or histopathological observations were made. Administrations of 0, 100, 200 and 2500 ppm chlorsulfuron to male and female weaning rats for 2 years produced a NOEL of 100 ppm in the diet based on mild to moderate reduction in mean body weights and weight gains in male rats from the higher dose groups.
Oncogenicity studies conducted with male and female mice by dietary administration of 0, 100, 500 and 5,000 ppm chlorsulfuron for 2 years showed no compound-related behavioural, clinical haematological, gross pathological,

or histological abnormalities. Chlorsulfuron was not oncogenic at any level. The overall NOEL was 500 ppm as a body weight reduction occurred in the 5,000ppm level. The dietary presence of chlorsulfuron at 500ppm had no adverse effect on the reproduction or lactation performance of young adult rats (3 generation, 2 litters per generation). Not teratogenic rats at 2,500 ppm or up to 75mg/kg in rabbits. Not mutagenic in Ames bacterial assay. Chinese Hampster Ovary mammalian cell assay, rat dominants lethal assay, in vitro cytogenetic assay, or DNA repair assay.

Other Information
The Australian Acceptable Daily Intake (ADI) for chlorsulfuron for a human is 0.05 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 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. **ADI= Acceptable Daily Intake; NOAEL: No Observable Adverse Effect Level. Data adopted from Australia ADI List, December 2023.*

SECTION 12 – ECOLOGICAL INFORMATION

Other Precautions:
Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product.
Persistence / Degradability:
Slowly hydrolyses in water at neutral pH (50% hydrolysis in 4-8 weeks at 20°C), more rapid hydrolysis occurs in acid solution.
Acute Toxicity - Fish
Not toxic to fish.
LC_{50} (96 hr) for rainbow trout is >250 mg/l for chlorsulfuron
Acute Toxicity - Daphnia
LC_{50} (48 hr) for daphnia is 370 mg/l for chlorsulfuron.
Acute Toxicity – Other Organisms
The following data is for the active ingredient, chlorsulfuron.
Birds: Not toxic to birds. LD_{50} for mallard ducks and bobwhite quail is >5000 mg/kg

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

ADG

UN Number:	None allocated.
Proper shipping name:	None allocated.
Class:	None allocated.
Packaging group:	None allocated.
Storage and Transport:	Not a dangerous good.

IMO-IMDG

UN Number:	None allocated.
Proper shipping name:	None allocated.
Class:	None allocated.
Packaging group:	None allocated.
Marine pollutant:	None allocated.

SECTION 15 – REGULATORY INFORMATION

SUSMP Classification	S5
Packaging & Labelling	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING

SECTION 16 – OTHER INFORMATION

This SDS 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
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
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number
GHS	Globally Harmonised System

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	0428 776 327 Ask for Russell Clark