SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name:	**Kenso Agcare Sextant Selective Herbicide**
Product Type:	Group 1 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 certain grass weeds in broadleaf crops as per Directions for Use Table.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification: Classified as hazardous according to criteria of Safe Work Australia.
Not classified as a Dangerous Good according to the ADG Code.

Classification of the Hazardous Chemical:	Flamemable liquids – Category 4 Aspiration hazard – Category 1 Skin corrosion/ irritation – Category 2 Serious eye damage/eye irritation – Category 2/2A Hazardous to the aquatic environment, long term – Chronic 3
GHS Signal Word:	**DANGER**
Hazard statements:	H227: Combustible liquid. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation H319: Causes serious eye irritation H411: Toxic to aquatic life with long lasting effects.
Prevention:	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P264: Wash contacted areas thoroughly after handling. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/ face protection.
Response:	P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician. P302+P352: IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

	P321: Specific treatment (see FIRST AID on this label) P331: Do not induce vomiting. P332+P313: If skin irritation occurs: Get medical advice/attention. P337+P313: If eye irritation persists: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash it before reuse. P370+P378: In case of fire: Use water fog, foam, dry agent (carbon dioxide, dry chemical powder) to extinguish. P391: Collect spillage.
Storage:	P403: Store in a well-ventilated place. P405: Store locked up.
Disposal:	P501: Dispose of contents and containers as specified on the registered label.
SUSMP Classification:	S6
ADG Classification:	N/A
UN Number:	N/A

Emergency Overview

Physical Description & colour: Pale brown mobile liquid.
Odour: Petroleum
Major Health Hazards: Pure Quizalofop-p-ethyl is harmful by oral exposure. The reported oral LD_{50} values of the compound are 1210 to 1670 mg/kg in male rats, and 1182 to 1480 mg/kg in female rats. Mice are only slightly less susceptible to the compound. Quizalofop-p-ethyl has reported LD_{50} values of 1753 to 2350 mg/kg in male mice and 1805 to 2360 mg/kg in female mice. This product may cause serious damage to eyes, harmful by inhalation and if swallowed, skin irritant, if aspirated, may cause lung damage.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Quizalofop-p-ethyl	110646-51-3	9.95%
Inert ingredients	secret	<15%
Hydrocarbon solvent	64742-94-5	To 100%

SECTION 4 – FIRST AID MEASURES

Inhalation:	Remove to fresh air until recovered. See a doctor if discomfort or irritation continues.
Skin contact:	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.
Eye contact:	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.

Ingestion:	If swallowed, do not induce vomiting; seek medical advice immediately.

Advice to Doctor
Treat symptomatically. If vomiting occurs be wary of the onset of pulmonary pneumonitis caused by the solvents.

SECTION 5 – FIRE FIGHTING MEASURES

Specific Hazard
Product is a combustible liquid, (C1)
Fire/Explosion Hazard
Dangerous Decomposition or Combustion Products
Thermal Decomposition
There is no risk of an explosion from this product under normal circumstances. Combustion may release carbon dioxide, nitrogen oxides, and/or chlorine compounds.
Extinguishing Media
Preferred extinguishing media are carbon dioxide, dry chemical, foam, water fog.
Fire Fighting:
When fighting fires involving significant quantities of this product, wear a splash suit complete with self contained breathing apparatus. Do not scatter spilled material with high pressure water jets.

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. Clean up spill immediately. Collect in sealed open-top containers for disposal. Triple rinse containers, and add rinsings to the spray tank, then offer container for recycling / reconditioning, or puncture top, sites and bottom and dispose of in landfill in accordance with local regulations. On-site disposal of concentrate is not acceptable.

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 days 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
Exposure limits have not been established for any of the significant ingredients in this product.
Engineering Control
Use assisted ventilation in enclosed spaces if needed, especially storage areas.
Protective Equipment
Poisonous if swallowed. Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including elbow-length PVC gloves and face shield. If product contacts skin, immediately wash area with soap and water. After each use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. Wash gloves, face shield and contaminated clothing before reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Pale brown liquid
Odour:	Hydrocarbon odour
pH:	Not applicable, non-aqueous formulation.
Vapour Pressure:	No Data
Vapour Density:	No Data
Boiling Point/range:	Solvent > 150 ^{o}C.
Melting/Freezing point:	<< 0 ^{o}C.
Solubility:	Emulsify in water
Specific Gravity:	0.95 ± 0.02
Flammability:	Combustible liquid, (C1)

SECTION 10 – STABILITY AND REACTIVITY

Chemical stability
Normally stable. Active may degrade in strong UV light.
Conditions to avoid
Very high or low temperatures.
Materials to avoid
Strong oxidising agents.
Hazardous decomposition products
Oxides of nitrogen and chlorine. Burning with limited oxygen may produce carbon monoxide.
Hazardous reactions
Not known. Does not polymerise.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity:
Quizalofop-p-ethyl is harmful by oral exposure.

Oral LD_{50} values are 1210 to 1670 mg/kg in male rats, and 1182 to 1480 mg/kg in female rats, 1753 to 2350 mg/kg in male mice and 1805 to 2360 mg/kg in female mice. Quizalofop-p-ethyl is not harmful by dermal exposure. Dermal LD_{50} values are greater than 2000 mg/kg for mice, rats, and rabbits. Reported 4-hour inhalation LC_{50} values are 5.8 mg/L for technical quizalofop-p-ethyl and 75 mg/L for formulated product in rats.

Chronic toxicity:

In a 1-year feeding study on dogs, doses of up to 10 mg/kg/day (the highest dose tested) caused no observed effects. In a 90-day feeding study in rats, doses of 6.4 mg/kg/day and higher produced liver lesions and increased liver weight. In a 2-year study of rats, doses of 5 mg/kg/day produced no observed effects.

Possible routes of exposure: Inhalation of spray mist is the most likely cause of exposure.

Range of effects. Excessive exposure may affect human health as follows:

Skin contact:

Unlikely to have any effects if rinsed immediately. Prolonged contact may cause irritation and redness.

Eye contact:

Unlikely to have any effects if rinsed immediately. Prolonged contact may likely to cause severe irritation and damage.

Inhalation/ingestion: Likely to cause nausea.

Dose/conc./conditions likely to cause injury: Several 10's of millilitres.

Delayed effects if any:

Relevant negative data: Not known to be carcinogenic, mutagenic, or teratogenic.

Potential Health Effects

Inhalation:

Short Term Exposure: Available data shows that this product is harmful, but symptoms are not available. In addition product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.

Skin Contact:

Short Term Exposure: Available data indicates that this product is not harmful. It should present no hazards in normal use. However product is a skin irritant. Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Eye Contact:

Short Term Exposure: This product is a severe eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms such as swelling of eyelids and blurred vision may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment is likely to cause permanent damage.

Ingestion:

Short Term Exposure: Significant oral exposure is considered to be unlikely. Because of the low viscosity of this product, it may directly enter the lungs if swallowed, or if subsequently vomited. Once in the lungs, it is very difficult to
remove and can cause severe injury or death. However, this product is an oral irritant. Symptoms may include burning sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Carcinogen Status:

ASCC: No significant ingredient is classified as carcinogenic by ASCC.
NTP: No significant ingredient is classified as carcinogenic by NTP.
IARC: No significant ingredient is classified as carcinogenic by IARC.
Other information:
The Australian Acceptable Daily Intake (ADI) for quizalofop-p-ethyl is set at 0.01 mg/kg/bw/day. The corresponding NOAEL is set at 1.25 mg/kg/bw/day. **ADI= Acceptable Daily Intake; NOAEL: No Observable Adverse Effect Level. Data adopted from Australia ADI List, December 2025.*

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity
Aquatic organisms:

Fish – Acute I (LC_{50} ≤ 1 mg/L)

Crustacea – Acute I (LC_{50} ≤ 1 mg/L).

Algae – Acute I (EC_{50} ≤ 1 mg/L).

Plants – Variable, from Acute (Poaceae) to non-toxic.

Flora: Highly toxic to plants of the Poaceae family. Relatively non-toxic to others.
Fauna: Non toxic.
Soil organisms: Non toxic to earthworms.
Bees: Non toxic.

Long term:
Ozone effects: None recorded.
Persistence/degradation
Hydrolyses rapidly in soil to quizalofop acid, then degrades with a half-life of weeks rather than months.
Mobility
Not readily leached.
Bioaccumulative potential
Unknown but probably low.

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:	3082
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains QUIZALOFOP-P-ETHYL)
Class:	9

Packaging group:	III
Hazchem:	•3Z
Storage and Transport:	Considered non dangerous for road and rail transport (in packaging) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.

IMO-IMDG

UN Number:	3082
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains QUIZALOFOP-P-ETHYL)
Class:	9
Packaging group:	III
Marine pollutant:	Yes

SECTION 15 – REGULATORY INFORMATION

SUSMP Classification	S6
Packaging & Labelling	POISON 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	1800 951 288 03 9573 3188