

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name:	Kenso Agcare Spektrum 500 WG Herbicide
Product Type:	Group 14 Herbicide
Company Name:	Kenso Corporation (M) Sdn Bhd
Address:	Level 1, 98 Commercial Road, Teneriffe, 4005 QLD.
Telephone Number:	(07) 3216 1188
Facsimile Number:	(07) 3216 0388
Emergency Telephone Number:	000 (Police or Fire Brigade) 13 11 26 (Poisons Information Centre)
Use:	For rapid knockdown and control of various grass and broadleaved weeds when mixed with certain glyphosate herbicides as per the 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:	Reproductive toxicity – Category 1 Hazardous to the aquatic environment, long-term – Chronic 1
GHS Signal Word:	DANGER
Hazard statements:	H360: May damage fertility or the unborn child H410: Very toxic to aquatic life with long lasting effects.
Prevention:	P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P273: Avoid release to the environment. P280: Wear protective gloves, protective clothing and eye or face protection.
Response:	P308+P313: IF exposed or concerned: Get medical advice/ attention. P391: Collect spillage.
Storage:	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: Beige granules

Odour: No characteristic odour

Major Health Hazards: Poisonous if absorbed by skin contact or swallowed. Will irritates the eyes and skin. May damage fertility or the unborn child

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
Flumioxazin	103361-09-7	50%
Inert ingredients	secret	to 100%

SECTION 4 – FIRST AID MEASURES

Inhalation:	Remove to fresh air until recovered. If symptoms persist, seek medical advice.
Skin contact:	Remove contaminated clothing and launder before use. Wash affected areas or skin thoroughly with soap and water. Seek medical advice if irritation develops.
Eye contact:	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical attention.
Ingestion:	If product is swallowed or gets in mouth, DO NOT induce vomiting, unless under the directions of medical personnel; rinse mouth thoroughly with water. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

Advice to Doctor:

Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard

Dangerous Decomposition or Combustion Products

Thermal Decomposition

Fire decomposition products from this product may be harmful gaseous or vapours. Take appropriate protective measures.

Extinguishing Media

Alcohol-resistant foam, carbon dioxide, dry powder or water fog. Do not use water jet as this will spread the fire.

Fire Fighting

If a significant quantity of this product is involved in a fire, call the fire brigade. There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is full fire kit and breathing apparatus.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills & Disposal

Before handling spillage, wear protective clothing as describe on this SDS. Sweep up material and contain in a refuse vessel for disposal in the same manner as for containers. For waste disposal, deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers.

Clean contaminated area with plenty of water. Dangerous for the environment. Contain the wash water and do not allow to enter waterways.

SECTION 7 – HANDLING AND STORAGE

Handling

Product is a water dispersible granule formulation and is contained within a water soluble bag. The water soluble bags dissolve readily in water. DO NOT handle water soluble bags or expose to moisture because this may cause breakages. DO NOT touch bags with wet hands or place on wet surfaces. DO NOT damage the foil sachets that contain the water soluble bags. Protect unused sachets by keeping them in the original container. Open sachets only as needed.

When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned over normal clothing, buttoned to the neck and wrist and a washable hat and elbow-length chemical resistant gloves and goggles. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

After each day's use, wash gloves and goggles and contaminated clothing.

Storage

Store in a locked room or place away from children, animals, food, feedstuffs and fertilizers. Store in the closed, original container in a dry, cool well-ventilated area out of direct sunlight. DO NOT store in or expose product to wet conditions. Rough handling of product may cause breakage of water soluble bags, especially at low temperatures.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits

Exposure limits have not been established by SWA for flumioxazin.

Engineering Controls

This product should only be used in a well-ventilated area. Natural ventilation is generally adequate.

Personal Protective Equipment

Open sachets only as needed. When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned over normal clothing, buttoned to the neck and wrist and a washable hat and elbow-length chemical resistant gloves and goggles. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

After each day's use, wash gloves and goggles and contaminated clothing.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:

Granules

Colour:	Beige to brown
Odour:	No characteristic odour
Vapour Pressure:	No specific data
Melting Point:	No specific data, Flumioxazin melts 202 - 204°C.
Solubility	Dispersible

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions. However, if you have any doubts, contact the supplier for advice on shelf-life properties.

Conditions to Avoid

Store in the closed, original container in a dry, cool well-ventilated area out of direct sunlight.

DO NOT store in or expose product to wet conditions. Rough handling of product may cause breakage of water soluble bags, especially at low temperatures.

Incompatibilities:

Strong oxidising agents.

Hazardous Decomposition Products

When use and store as recommended, product does not decompose. Thermal decomposition or combustion products may include harmful gaseous or vapours.

Hazardous Polymerization

Hazardous polymerisation is not possible.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity data (Flumioxazin technical)

Acute Toxicity – Oral

LD₅₀ (rat): >5000 mg/kg

Acute Toxicity – Dermal

LD₅₀ (rat): >2000 mg/kg

Acute Toxicity – Inhalation

LC₅₀ (rat) (4hr): >3930 mg/m³ air

Skin irritation: Non-irritant

Eye irritation: Mild eye irritant (rabbit)

Sensitization: Non-sensitising to skin (guinea pigs)

Potential Health Effects

Poisonous if absorbed by skin contact or swallowed. Will irritates the eyes and skin. Avoid contact with eyes and skin.

Acute:

Inhalation:	No specific symptoms known.
Skin contact:	Cause irritation. Skin redness may develop.
Eye contact:	Cause irritation.
Ingestion:	May cause irritation

Chronic:

Reproductive Toxicity

Flumioxazin which causes birth defects in laboratory animals. Women of child bearing age should avoid contact with flumioxazin.

Mutagenicity

Non-mutagenic in Ames test, in vivo chromosomal aberration and in vivo/vitro UDS.

Carcinogenicity

Classification criteria are not met based on available data.

Other Information

ADI for Flumioxazin is set at 0.02 mg/kg/day. The corresponding NOAEL is set at 1.8 mg/kg/day
*ADI= Acceptable Daily Intake; NOEL: No Observable Effect Level. Data adopted from Australia ADI List, September 2024.

SECTION 12 – ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

Ecotoxicity data (active ingredient, flumioxazin)

Acute Toxicity – Fish

LC₅₀ (96 hr) for rainbow trout: 2.31 mg/L

Acute Toxicity – Daphnia

EC₅₀ (48 hr) for daphnia is 5.9mg/L

Acute Toxicity – Algae

EC₅₀ (72hr) for *Selenastrum capricornutum*: 1.2 µg/L

Acute Toxicity – Other Organisms

Bees: Not toxic to bees. LD₅₀ (oral) >100 µg/bee.

Worms: LC₅₀ for earthworms >982 mg/kg soil.

Lemna gibba: EC50 (14 d) 0.35 µg/L

ENVIRONMENTAL FATE

Spray drift can cause damage, read the label for more information. Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.

Persistence /Degradability

Flumioxazin is relatively unstable and its potential to leach to groundwater is low. Koc 1412 (est.). DT50 for photolysis on aerobic soil metabolism 15-27 days.

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:

3077

Proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

Class: SOLID, N.O.S (contains FLUMIOXAZIN)
 9
Packaging group: III
Hazchem: 2Z
Storage and Transport: Considered non dangerous for road and rail transport (in packaging) by the Australian Code for Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.

IMO-IMDG

UN Number: 3077
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (contains FLUMIOXAZIN)
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