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### SAFETY DATA SHEET

### SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Product Type: Company Name: Address: Telephone Number: Emergency Telephone Number:

#### Kenso Agcare Ken-Zon Herbicide

Group I Herbicide Kenso Corporation (M) Sdn Bhd Level 1, 98 Commercial Road, Teneriffe, 4005 QLD. (07) 3216 1188 000 (Police or Fire Brigade) **13 11 26 (Poisons Information Centre)** For control of a range of environmental and noxious woody and herbaceous weeds as specified in the Directions for Use table.

Use:

# **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	Flammable liquids – Category 4	
Hazardous Chemical:	Acute toxicity (Oral) – Category 4	
	Skin corrosion/irritation – Category 2	
	Hazardous to the aquatic environment long-term – Chronic 1	
GHS Signal Word:	WARNING	
Hazard statements:	H227: Combustible liquid.	
	H302: Harmful if swallowed.	
	H315: Causes skin irritation.	
	H319: Causes serious eye irritation.	
<b>D</b> escription	H410: Very toxic to aquatic life with long lasting effects.	
Prevention:	other ignition sources. No smoking.	
	P264: Wash contacted area thoroughly after handling.	
	P270: Do not eat, drink or smoke when using this product.	
	P273: Avoid release to the environment	
	P280: Wear protective gloves, protective clothing and eye or face protection.	
Response:	P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/	
	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)	



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	<ul> <li>P330: Rinse mouth.</li> <li>P332+P313: If skin irritation occurs: Get medical advice/attention.</li> <li>P337+P313: If eye irritation persists: Get medical advice/attention.</li> <li>P362+P364: Take off contaminated clothing and wash it before reuse.</li> <li>P370+P378: In case of fire: Use water fog, foam, dry agent (carbon dioxide, dry chemical powder) to extinguish.</li> <li>P391: Collect spillage.</li> </ul>
Storage:	P403: Store in a well-ventilated place.
Disposal:	P501: Dispose of contents and containers as specified on the registered label.
SUSMP Classification:	Ső
ADG Classification:	N/A
UN Number:	N/A

### **Emergency Overview**

Physical Description & colour: Clear brown liquid.

**Odour:** Aromatic odour.

Major Health Hazards: No major health hazard is known.

# SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	Proportion
l riclopyr (present as butoxyethyl ester)	64700-56-7	30%
Picloram	1918-02-1	10%
Diethylene glycol ethyl ether	111-90-0	41%
Inert ingredients	secret	to 100%

# **SECTION 4 – FIRST AID MEASURES**

Inhalation:	If affected, remove from contaminated area to fresh air.
Skin	If on skins, remove contaminated clothing and wash affected skin thoroughly with
contact:	soap and water.
Eye	If in eyes, hold eyes open and flood with water for at least 15 minutes. Seek medical
contact:	advice.
Ingestion:	If swallowed, do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26. Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

### Advice to Doctor

Treat symptomatically.



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# **SECTION 5 – FIRE FIGHTING MEASURES**

### Specific Hazard

Product is a combustible liquid, (C1) Fire/Explosion Hazards

# Dangerous decomposition or Combustion Products

#### Thermal decomposition

May produce irritating vapours under fire conditions. Combustible liquid. Breathable air apparatus may be required in confined spaces.

There is a moderate risk of an explosion from this product if it is involved in a fire. Fire decomposition products from this product may form toxic and corrosive mixtures in confined spaces.

#### Hazardous decomposition products

Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen, and under some circumstances, oxides of nitrogen. Hydrogen chloride gas, chlorides, and in some circumstances, phosgene. Water.

# **Hazardous Reactions**

Avoid oxidising agents.

# Extinguishing Media

Carbon dioxide, dry chemical, foam, water fog

# 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. Collect in sealed open top containers for disposal. The product is an 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 off in landfill in accordance with local regulations. On-site disposal off 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.



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### SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

### **Exposure Standards:**

A time weighted average (TWA) has been established for picloram, present in significant quantities in this product. This value is 10 mg/m<sup>3</sup>. The corresponding STEL level is "not set". The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.

#### **Engineering Controls:**

In industrial situations, concentrated values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.

### **Personal Protection:**

Moderately harmful if swallowed. Will irritate eyes and skin. When preparing with eyes and skin. Do not inhale spray mist. When preparing product for use, wear cotton overalls buttoned to the neck and wrist and washable hat, elbow length PVC gloves and effective eye protection. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly. After each day's use, wash contaminated clothing and safety equipment.

# **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Form: Colour: Odour: Boiling point (°C): Vapour Pressure:

Specific Gravity: Flashpoint: Flammability: Solubility: liquid clear brown aromatic odour Solvents may begin boiling at 196°C. 10 x 10<sup>-5</sup> mm Hg at 33°C (triclopyr butoxyethyl ester) 65 x 10<sup>-7</sup> mm Hg at 35°C (picloram acid) 1.124 at 20°C. 82°C. Combustible Liquid, (C1) Emulsify in water

# SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability This product is unlikely to spontaneously decompose. Conditions to Avoid None. Incompatibilities Strong oxidizing agent. Hazardous Polymerization Hazardous polymerization is not possible.

# SECTION 11 – TOXICOLOGICAL INFORMATION

**Toxicity data:** 



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Acute Toxicity – Oral

LD<sub>50</sub> rats > 2000 mg/kg

Acute Toxicity – Dermal LD<sub>50</sub> (rabbits) > 2000 mg/kg

# Other Information

Other Information

The Australian Acceptable Daily (ADI) of triclopyr for a human is 0.005 mg/kg/day, set for public for daily, lifetime exposure. This is based on the NOAEL of 0.5mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. The Australian Acceptable Daily (ADI) of picloram for a human is 0.07mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 7 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species.

#### **Potential Health Effects**

### Health Effects

### <u>Acute:</u>

Inhalation:	The acute inhalation toxicity is low.	
Skin contact:	Prolonged or repeated contact may cause moderate irritation, drying or flaking of the skin.	
Eye contact:	May cause temporary, moderate eye irritation.	
Ingestion:	A moderate hazard if the concentrate is accidentally swallowed. If liquid enters the lungs may cause lung damage or even death due to chemical pneumonia, a condition caused by solvents or surfactants.	

**Chronic:** Possible chronic health effects from exposure to Ken-Zon are based on the active ingredient. Rats and mice administered the active ingredients, picloram or triclopyr, in long-term carcinogenicity studies showed no increase in tumours when compared to the untreated group. Studies in rats and rabbits indicate that picloram and triclopyr do not cause birth defects or interfere with reproduction. Picloram and triclopyr do not cause genetic change and do not accumulate in the body.

### Other information:

Australia ADI for triclopyr is set at 0.005 mg/kg/day with corresponding NOEL is set at 0.5 mg/kg/day. ADI for pricloram is set at 0.07 mg/kg/day with corresponding NOEL is set at 7 mg/kg/day. \*ADI= Acceptable Daily Intake; NOEL: No Observable Effect Level. Data adopted from Australia ADI List, December 2023.

# SECTION 12 – ECOLOGICAL INFORMATION

# Known Harmful Effects on the Environment

The breakdown of picloram in soil is variable and is influenced by soil moisture, temperature and organic content. Under spill conditions or very high use rates, residues could remain in the soil up to four years, particularly in arid soils. At low application rates, under warm, moist conditions, residues decline sufficiently to allow growth of susceptible plants within twelve months. In soil, picloram is degraded by photodegradation and microbial action. In water, it is degraded by ultra-violet light with



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a half-life of one to forty days depending on sunlight intensity. Picloram typically remains in the top thirty centimetres of a soil profile depending on soil adsorption properties.

Triclopyr butoxyethyl ester is rapidly hydrolysed to triclopyr acid in soil and water. Triclopyr acid is degraded by microbial action and photodecomposition. Triclopyr acid, in soil, has a half life of approximately forty days, depending on soil and climatic conditions. In water, triclopyr acid will decompose rapidly with a half-life of one to two days. Minimal leaching of triclopyr acid may occur in light soils under high rainfall conditions.

### **Environ.** Protection

Contamination of ground water by picloram and triclopyr is highly unlikely. If used according to the label, Ken-Zon Herbicide will not be harmful to the environment.

#### **Persistence / Degradability**

Picloram ester and triclopyr ester rapidly convert to the parent acids picloram and triclopyr once in soil, water, plants and animals. It is the properties of these compounds that are important in assessing any effects from treatment.

### Acute Toxicity - Fish

Picloram and triclopyr have low toxicity to fish and do not bioaccumulation in animal systems.

### Acute Toxicity – Other Organisms

Picloram has low toxicity to birds, honey bees, livestock and aquatic organisms. Triclopyr has low toxicity to aquatic organisms, livestock, birds and honeybees.

For Triclopyr as the butoxyethyl ester:

Non-toxic to honey bees at > 100 mg/bee

 $LC_{50}$  (96 hrs) for rainbow trout: 0.74 mg/L

LC<sub>50</sub> (96 hrs) for bluegill sunfish: 0.87 mg/L

For Picloram:

Not toxic to bees.

LC<sub>50</sub> (96 hrs) for bluegill sunfish: 19.4 mg/L

LC<sub>50</sub> (96 hrs) for flathead minnow: 55.3 mg/L

Picloram and triclopyr do not bioaccumulate in animal systems.

#### **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 TRICLOPYR ester and PICLORAM)
Class:	9
Packaging group:	III
Hazchem:	3Z



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Considered non dangerous for road and rail transport (in **Storage and Transport:** packaging) by the Australian Code for 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 TRICLOPYR ester and PICLORAM) Class:

Packaging group: Marine pollutant:

9 Ш Yes

# **SECTION 15 – REGULATORY INFORMATION**

**SUSMP Classification** Packaging & Labelling S6 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 International Agency for Research on Cancer IARC NOHSC National Occupational Health and Safety Commission Standard for the Uniform Scheduling of Medicines & Poisons SUSMP **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