



SECTION 1 – IDENTIFIC	ATION OF THE CHEMICAL PRODUCT AND COMPANY
Product Name	Fiestar Non-Selective Herbicide
Company Name	Kenso Corporation (M) Sdn Bhd
Address	2 Bond Crescent, Forrest Hill, Auckland 0620 New Zealand
Telephone	0800 536 766
Hazardous Substance	
Emergency Telephone	0800 CHEMCALL (0800 243 622) (24 hours)
National Poisons Centre	0800 POISON (0800 764 766) (24 hours)
Use	For control of a wide range of grasses, broad-leaved weeds and clovers.
SECTION 2 – HAZARDS	IDENTIFICATION
Hazard Pictograms	
-	
CHE Signal Word	
GHS Signal Word	DANGER
Hazard Classification	Flam. Liquid 4, Acute oral toxicity Category 4, Acute dermal toxicity Category
	4, Acute inhalation toxicity Category 4, Eye irritation Category 2, Reproductive
	toxicity Category 2, Specific target organ toxicity (repeated exposure)
	Category 1, Hazardous to the aquatic environment chronic Category 3,
Hazard Statement	Hazardous to soil organisms, Hazardous to terrestrial vertebrates. H227: Combustible liquid.
Hazaru Statement	H302: Harmful if swallowed.
	H312: Harmful in contact with skin.
	H319: Causes serious eye irritation.
	H332: Harmful if inhaled.
	H361: Suspected of damaging fertility or the unborn child.
	H372: Causes damage to organs thorough prolonged or repeated exposure.
	H412: Harmful to aquatic life with long lasting effects.
Prevention	P102: Keep out of reach of children.
Flevention	P102: Read label before use.
	P201: Obtain special instructions before use.
	P202: Do not handle until all safety precautions have been ready and
	understood.
	P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
	P260: Do not breathe dust/fume/gas/mist/vapours/spray.
	P264: Wash contacted areas thoroughly after handling.
	P270: Do not eat, drink or smoke when using this product.
	P271: Use only outdoors or in a well-ventilated area.
	P273: Avoid release to the environment.
	P280: Wear protective gloves/protective clothing/eye protection/face
	protection.
Response	P101: If medical advice is needed, have product container or label at hand.
·	P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician
	if you feel unwell.
	P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
	P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a
	position comfortable for breathing.
	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several
	minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P308 + P313: IF exposed or concerned: Get medical advice/attention.
	P312: Call a POISON CENTER or doctor/physician if you feel unwell.
	P330: Rinse mouth.
	P337 + P313: If eye irritation persists: Get medical advice/attention.
	P362 + P364: Take off contaminated clothing and wash it before reuse.
Storage	P403: Store in a well-ventilated place.
	P405: Store locked up.
Disposal	P501: Dispose of contents/container as specified on the registered label.





Ingredients	CAS No	Proportion	
Glufosinate-ammonium	77182-82-2	20% w/v	
Propylene glycol	107-98-2	<10% w/v	
monomethyl ether			
Inert ingredients	secret	To 100% w/v	

SECTION 4 – FIRST AID	MEASURES
Ingestion	If swallowed do NOT induce vomiting. For advice, contact the National
-	Poisons Centre (0800 764 766). Seek medical assistance immediately.
Eye	Flush eyes with plenty of water for 15 minutes holding eyelids open if
-	necessary. Seek medical assistance.
Skin	Immediately flush body and clothes with large amounts of water. Remove
	contaminated clothing and footwear. Wash affected areas with soap and
	water.
	If a large area is affected seek medical assistance.
Inhalation	Remove patient to fresh air. Lay down and keep warm and rested. If breathing
	is shallow or has stopped ensure airway is clear and apply resuscitation.
	Seek medical assistance immediately.
Advice to Doctor	Treat symptomatically.

SECTION 5 – FIRE FIGH	TING MEASURES
Fire/Explosion Hazard	NA
HAZCHEM Code	NA
IER Guide No	NA
Extinguishing Media	Dry Chemical, water spray, carbon dioxide
Fire Fighting Instructions	During a fire, toxic fumes may be emitted. Wear self-contained breathing
	apparatus. Contain runoff.

SECTION 6 – ACCIDENT	AL RELEASE MEASURES
Personal Precautions	For appropriate personal protective equipment (PPE), refer to section 8.
Spillage	Prevent the product or spilled material from entering drains or water bodies.
	Contain and absorb spills with inert material such as zeolite clay or sand and
	place in waste containers. Wash area with water and detergent and absorb
	with further inert material. Dispose of through a designated hazardous
	substances disposal facility or contact the local regional/district council for
	disposal information.
Environmental	Washings must be prevented from entering surface water drains or
Precautions	waterways.

SECTION 7 – HANDLING	AND STORAGE
Storage	Keep out of reach of children. Store in original container, tightly closed, away
	from foodstuffs, medicines, animal remedies, seeds and fertilisers. Store in a
	cool, dry, well-ventilated place and protect from sunlight.
Handling	Avoid contact with skin and eyes and inhalation of concentrate or spray mist.
	When using, do not eat, drink or smoke. Wash face and hands before eating,
	drinking or smoking.
Handler Competence	Persons responsible for the storage, handling, mixing, applying or disposing of
	this product must be trained, experienced or supervised in accordance with
	requirements for class 6 and 9 substances of the Health and Safety at Work
	(Hazardous Substances) Regulations 2017 part 4.5 and the Hazardous
	Substances (Hazardous Property Controls) Notice 2017 Part 4 Subpart C.
Record Keeping	Tracking is not required.
Additional Requirements	All aspects of storage, handling, use, disposal and record keeping must be in
	accordance with NZS 8409:2021 'Management of Agrichemicals', and relevant
	local and regional council plans.

 SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

 Engineering Controls
 Control process conditions to avoid contact. Use only in well-ventilated areas.





SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES	
Form	Liquid
Colour	Clear blue
Odour	Odourless
pH	6 - 8
Flash point (°C)	NA
Flammability Limits	NA
Miscibility	Soluble
Oxidising properties	Not oxidising
Explosive properties	Not explosive

SECTION 10 – STABILITY AND REACTIVITY	
Stability	Stable under normal conditions. Do not store below 4 °C.
Incompatibility	None known
Decomposition	Combustion or thermal decomposition will evolve toxic and irritant vapours.
Dangerous Reactions	Ammonia. In a fire, oxides of carbon, nitrogen, phosphorus and sulphur may
-	be emitted.

SECTION 11 – TOXICOLOGICAL INFORMATION This section describes effects which could occur if this product is not handled in accordance with this data sheet.

The following information is presented in respect of the product:

Acute Toxicity (Product)	Acute Oral LD ₅₀ (rats): 1910-2170 mg/kg
	Acute Dermal LD ₅₀ (rats): 1380-1400 mg/kg
	Acute Inhalation LC ₅₀ (rats) (4hr): 3.22-4.31 mg/L
Eye Irritation	Slightly irritating (rabbits)
Skin Irritation	Moderately irritating (rabbits)
Sensitisation Effects	Not a sensitizer (guinea pigs)
Mutagenic Effects	None
Carcinogenic Effects	None
Reproductive Effects	None
Teratogenic (Birth)	None
Effects	
Systemic Effects	None

SECTION 12 – ECOTOXI	CITY INFORMATION
This section describes effec	ts which could occur if this material is not handled in accordance with this data
sheet.	
The following information is presented in respect of the active ingredient:	
Ecotoxic Effects	Acute toxicity to Fish
	LC_{50} (96 h) (rainbow trout) = 710 mg/L
	LC₅₀ (96 h) (carp, bluegill sunfish, golden orfe) > 1000 mg/L
	Acute toxicity to Daphnia
	EC ₅₀ (48 h) (daphnia magna) = 560-1000 mg/L
	Acute toxicity to Algae
	LD ₅₀ (Scenedesmus subspicatus) ≥ 1000 mg/L
	LD ₅₀ (Scenedesmus capricomutum) = 37 mg/L
	Acute toxicity to Bird
	LC ₅₀ (8 d dietary) (japanese quail) > 5000 mg/kg
Other Information	Glufosinate-ammonium is practically non-toxic to birds, fish, honeybees,
	earthworms and beneficial insects. It is practically non-toxic to Daphnia, but





moderately toxic to sensitive aquatic species. It is expected to be slightly to moderately toxic to wild animals. DO NOT contaminate streams, rivers or waterways with the used containers. Glufosinate-ammonium is very soluble in water and is hydrolytically and

Glutosinate-ammonium is very soluble in water and is hydrolytically and photolytically stable. It is rapidly degraded in surface levels of soils and in water. This product is considered to be readily biodegradable. The potential for groundwater contamination with glufosinate-ammonium is minimal. Glufosinate-ammonium does not accumulate in the fatty tissues of fish or other animals.

SECTION 13 – DISPOSAL CONSIDERATIONS	
Product	Dispose of this product only by using according to the label, or at an approved
	local authority waste receival facility or other approved hazardous substances waste management facility.
Container	Ensure the container is empty. Triple rinse empty container and add rinsate to the spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise submit to an approved waste disposal/recycling facility. DO NOT reuse this container for any other purpose.

SECTION 14 – TRANSPORT INFORMATION			
NA			

SECTION 15 – REGULATORY INFORMATION				
HSNO Approval No	HSR000152			
ACVM Approval No	P008141			
SECTION 16 – OTHER INFORMATION				
This SDS contains only safety-related information. For other data see product literature.				
Contact Points				
Police, Ambulance and F	ire Service	111		
,				

Folice, Ambulance and File Service	111
National Poisons Information Centre	0800 POISON (0800 764 766)
Hazardous Substances Emergency	0800 Chemcall (0800 243 622)