



SECTION 1 - IDENTIFICATION 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 National Poisons Centre

0800 CHEMCALL (0800 243 622) (24 hours) 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







GHS Signal Word DANGER

Hazard Statement
H227: Combustible liquid.
H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H332: Harmful if inhaled.

H319: Causes serious eye irritation.

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.

P103: Read label before use.

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been ready and

ınderstood.

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: IF IN EYES: Rinse cautiously with water for several minutes. P308 + P313: IF exposed or concerned: Get medical advice/attention.

P330: Rinse mouth.

P337: If eye irritation persists: Get medical advice/attention.

P338: Remove contact lenses, if present and easy to do. Continue rinsing.

P363: Wash contaminated clothing before reuse.

Disposal P501: Dispose of contents/container as specified on the registered label.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

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

SAFETY DATA SHEET



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 FIGHTING 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 – ACCIDENTAL 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.

If necessary, use local exhaust ventilation to keep airborne concentration

below the exposure limits.

Personal Protection When mixing, applying or when likely to have any exposure to concentrate,

mixes or mists/vapours suitable chemical resistant clothing must be worn including; coveralls, face shield, respiratory protection (organic vapour minimum specification) gauntlet gloves and footwear/boots. After each use and before eating, drinking or smoking, wash hands, arms and face thoroughly





with soap and water. Wash PPE and contaminated clothing before reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form Liquid Colour Clear blue Odour Odourless рН 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

DecompositionCombustion or thermal decomposition will evolve toxic and irritant vapours.

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 LD₅₀ (rats): 1910-2170 mg/kg

Acute Dermal LD₅₀ (rats): 1380-1400 mg/kg

Acute Inhalation LC50 (rats) (4hr): 3.22-4.31 mg/L

Eye IrritationSlightly irritating (rabbits)Skin IrritationModerately irritating (rabbits)Sensitisation EffectsNot a sensitizer (guinea pigs)

Mutagenic Effects
Carcinogenic Effects
Reproductive Effects
None
Teratogenic (Birth)
None

Effects

Systemic Effects None

SECTION 12 – ECOTOXICITY INFORMATION

This section describes effects 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) \geq 1000 mg/L LD_{50} (Scenedesmus capricomutum) = 37 mg/L

Acute toxicity to Bird

LC₅₀ (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 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

Dangerous Goods

UN Number
Proper Shipping Name
Class
NA
Subsidiary Class
Packaging Group
Additional Information
NA
MTQ (Non-Commercial)

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 Fire Service 111

National Poisons Information Centre
Hazardous Substances Emergency
0800 POISON (0800 764 766)
0800 Chemcall (0800 243 622)