SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Product Use: Company Name: Address:

Telephone Number: Emergency Telephone Number: Fiestar 280 SL Herbicide Kenso Corporation (M) Sdn Bhd B-9-3. PJ8, Block B West 23 Jalan Barat, Petaling Jaya, Selangor 46050 Malaysia +603 7962 3636 1-800-222-1222 (Medical Emergencies) 1-800-424-9300 (Chemical Emergencies)

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification:

OSHA Regulatory Status

This product is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

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Signal Word:	DANGER
Hazard statement:	Harmful if swallowed. Harmful in contact with skin Harmful if inhaled. May damage fertility or the unborn child. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure
Precautionary statement - Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe fumes, mists, vapours or spray. Wash contacted areas thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing and eye or face protection.
-Response:	Get medical advice or attention if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If exposed or concerned: Get medical advice/attention.

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e in a well-ventilated place. Keep cool.
ose of contents and containers as specified on the
tered label.
ther hazards known.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients
Glufosinate-ammonium
Inert ingredients
Water

CAS number 77182-82-2 secret 7732-18-5 **Proportion** 20 %w/v 30-60 %w/v to 100%w/v

SECTION 4 – FIRST AID MEASURES

- **General** When possible, have the product container or label with you when calling a poison advice control center or doctor or going for treatment.
- **Ingestion** Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
- **Skin contact** Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
- **Eye contact** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
- **Inhalation** Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed Treatment Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media Suitable

Extinguish fire with foam, dry powder, carbon dioxide or water spray.

Special hazards arising from the substance or mixture

In the event of fire the following may be released:, Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Oxides of phosphorus, Nitrogen oxides (NOx)

Special protective equipment for fire fighting

Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Clean up spills immediately observing the precautions in Section 8 of this SDS. Isolate the hazard area and keep unnecessary and unprotected personnel from entering. In case of spill on floor or paved surfaces, mop up and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to label. Prevent material from contaminating soil or from entering sewage and drainage systems and bodies of water. Dike and contain the spill with inert material such as sand, earth, etc. Transfer liquid to containers and solid diking material to separate containers for recovery and disposal.

SECTION 7 – HANDLING AND STORAGE

Handling

Do not get in eyes, on skin or clothing. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash contaminated clothing before re-use. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Storage

Do not use or store near heat or open flame. Keep the container tightly closed and dry in a cool, well-ventilated place. Storage temperature should not exceed 125° F. If storage temperature for bulk Fiestar 280 SL is below 32° F, the material should not be pumped until its temperature exceeds 32° F. Protect against direct sunlight.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Control

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 Protective Equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

General Protective Measures

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.

Keep and wash PPE separately from other laundry.

Eye wash facility and safety shower should be available.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical stated: Appearance: Odor: pH: Melting Point (°C): Liquid Red liquid Weakly pungent 6.0 – 8.0 at 100% No data available Boiling Point (°C): Specific Gravity: Vapour Pressure: Flammability Limits: Solubility: Flash point: Flammability limit in air: Upper Flammability Limit Lower Flammability Limit Explosivity: No data available 1.145 No data available

Soluble in water > 100 °C

No data available No data available Not applicable

SECTION 10 – STABILITY AND REACTIVITY

Reactivity	No data available
Thermal decomposition	No data available.
Chemical stability	Stable under normal conditions. Hazardous polymerisation does not
	occur.
Possibility of hazardous	No dangerous reaction known under conditions of normal use.
reactions	
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	Strong acids, strong bases, strong oxidising agents. Ammonia may be
	evolved in the presence of alkalis.
Hazardous	Ammonia. In a fire, oxides of carbon, nitrogen, phosphorus and
decomposition products	sulphur may be emitted.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity – Oral

LD₅₀ female rat: 1750 mg/kg (product) Acute Toxicity - Dermal LD₅₀ female rat: >2000 mg/kg (product) LD₅₀ male rat: >2000 mg/kg (product) Acute Toxicity – Inhalation LC₅₀ female rat: >5.265 mg/L (4 hr) (product)

LC_{50} male rat: >5.265 mg/L (4 hr) (product)

Skin irritation

Slightly irritating (rabbit) (product)

Eye irritation

Moderately irritating (rabbit) (product)

Sensitisation

Non-sensitising (nice) (product)

Chronic

In animal studies glufosinate-ammonium showed no teratogenic, carcinogenic, mutagenic or neurotoxic effects.

SECTION 12 – ECOLOGICAL 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.

Environmental Fate, Persistence and Degradability, Mobility

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 glufosinateammonium is minimal. Glufosinate-ammonium does not accumulate in the fatty tissues of fish or other animals.

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

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

SECTION 15 – REGULATORY INFORMATION

EPA Registration No.94442-1Packaging & LabellingCAUTIONKEEP OUT OF REACH OF CHILDRENPLEASEREFERTOLABELFORADDITIONALPRECAUTIONARYSTATEMENTS AND DIRECTIONS FOR
USE.

SECTION 16 – OTHER INFORMATION

REFER TO THE PRODUCT LABEL FOR TERMS AND CONDITIONS OF USE.