

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Kenstrike 800WG Herbicide
Company Name: Kenso Corporation (M) Sdn Bhd
Address: 2 Bond Crescent, Forrest Hill,
Auckland 0620 New Zealand
Telephone Number: (09) 410 0861
Emergency Telephone Number: 0800 CHEMCALL (0800 243 622)
National Poisons Information Centre: 0800 POISON (0800 764 766)
Use: For post emergence control of broadleaf weeds in clover,
lucerne, chicory, new and mature pasture and maize

SECTION 2 – HAZARDS IDENTIFICATION

Hazard classification: 6.3A, 9.1A, 9.2A
Priority Identifier: ECOTOXIC
KEEP OUT OF REACH OF CHILDREN
Secondary Identifiers:
6.3A = Cause skin irritation
9.1A = Very toxic to aquatic organisms
9.2A = Very toxic to the soil environment.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | CAS number | Proportion |
|-------------------|------------|------------|
| Flumetsulam | 98967-40-9 | 800g/kg |
| Other ingredients | secret | Up to 1kg |

SECTION 4 – FIRST AID MEASURES

First Aid Measures For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.

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.

Ingestion Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.

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.

| | |
|-----------------------------|--------------------------------------------------------------------------------------------------------------|
| Eye | Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance. |
| First Aid Facilities | Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. |
| Advice to Doctor | Treat symptomatically. |

SECTION 5 – FIRE FIGHTING MEASURES

| | |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Suitable Extinguishing Media | Dry Chemical, water spray, carbon dioxide |
| Hazards from Combustion Products | On burning may emit oxides of nitrogen, oxides of sulphur and halogen derivatives which are toxic and/or irritating. |
| Special Protective Equipment for fire fighters | Full protective clothing and self-contained breathing apparatus. |
| Specific Methods | Keep up wind. Do not allow washings to reach sewage or effluent systems. Keep containers cool with water spray. |
| Hazchem Code | 2X |
| Other Information | Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable |

SECTION 6 – ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Spills & Disposal | Wear protective clothing. Clear area of unprotected personnel. Sweep up solids without generating dust (use water to dampen). Contain and absorb liquid spills with inert material and place in waste containers. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill. |
| Personal Protection | For appropriate personal protective equipment (PPE), refer Section 8. |
| Environmental Precautions | Prevent from entering drains, waterways or sewers. This product is a herbicide and spills can damage crops, pastures and desirable vegetation. Prevent contamination of soil and water. |

SECTION 7 – HANDLING AND STORAGE

| | |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for Safe Handling | Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: This product must be under the control of an approved handler if applied in a wide dispersive manner, or used by a commercial contractor. TRACKING: Is not required RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3kg or more is applied within 24 hours. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants. |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Conditions for Safe Storage Keep out of reach of children.
Store in original container, tightly closed, in a locked, dry, cool, well-ventilated area away from foodstuffs, seeds, feed and fertiliser. Store in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100kg of Kenstrike Herbicide are subject to signage, and more than 100kg require emergency response plans.

Other Information Always read the label and any attached leaflet before use.
Aggregate Storage Volume Thresholds:
When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

National Exposure Standards No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.

Engineering Controls Handle in well ventilated areas, generally natural ventilation is adequate.

Personal Protective Equipment When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.

Hygiene Measures Do not eat, drink or smoke while using.
Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work. Wash splashes of concentrate from skin immediately.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--------------------------|--------------------------------|
| Form | Solid |
| Appearance | Beige granule |
| Odour | Non-specific |
| Melting Point | >200°C |
| pH Value | 6 - 8 |
| Density | 775 - 825g/mL |
| Other Information | (WG) Water Dispersible Granule |

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.

Conditions to Avoid Avoid extreme temperatures.

Hazardous Polymerization Hazardous polymerisation will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

| | |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicology Information | No specific toxicological data is available for this product. Data below is for constituents. |
| Mutagenicity | Non-mutagenic in the Ames test for flumetsulam. |
| Acute Toxicity - Oral | LD ₅₀ (rat) >5,000 mg/kg for flumetsulam |
| Acute Toxicity – Dermal | LD ₅₀ (rabbit) >2,000 mg/kg for flumetsulam |
| Acute Toxicity – Inhalation | LC ₅₀ (rat) (4hr) 1.2 mg/l for flumetsulam |
| Eye Irritation | Slightly irritating to rabbits for flumetsulam. |
| Skin Sensitisation | Non-sensitising to skin (guinea pigs) for flumetsulam. |
| Subchronic/Chronic Toxicity | Non-teratogenic (dietary) in rats for flumetsulam. NOEL for female rats 500mg/kg body weight. |
| Other Information | The Australian Acceptable Daily Intake (ADI) for flumetsulam for a human is 1 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 100 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing Office of Chemical Safety and Environmental Health, 'ADI List', June 2011). |

SECTION 12 – ECOLOGICAL INFORMATION

| | |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Persistence / Degradability | Not bioaccumulative (flumetsulam). |
| Environmental Fate | Soil photolysis DT ₅₀ = 3 months for flumetsulam Aqueous photolysis DT ₅₀ = 6-12 months for flumetsulam |
| Bioaccumulative Potential | Not rapidly degradable (flumetsulam). |
| Basis for Assessment | Ecotoxicological data have not been determined specifically for this product. Data below is for the active ingredient unless otherwise stated. |
| Acute Toxicity – Fish | LC ₅₀ (96hr) for silverside minnow is >379 mg/l for flumetsulam |
| Acute Toxicity – Daphnia | Non-toxic. |
| Acute Toxicity – Algae | EC ₅₀ (96h) for Freshwater algae <i>Scenedesmus costatum</i> (5d) 0.0032 mg/l for flumetsulam. |
| Acute Toxicity - Other Organisms | LD ₅₀ for bobwhite quail is >2,250 mg/kg for flumetsulam LC ₅₀ (14d) earthworm >950mg/kg soil for flumetsulam |

SECTION 13 – DISPOSAL CONSIDERATIONS

| | |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Product Disposal | Dispose of product only by using according to the label, or at an approved landfill. |
| Container Disposal | Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill. |

SECTION 14 – TRANSPORT INFORMATION

| | |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Transport Information | It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs. |
| U.N. Number | 3077 |
| Proper Shipping Name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (flumetsulam, 80%) |
| DG Class | 9 |
| Hazchem Code | 2X |
| Packaging Method | - |
| Packing Group | III |
| EPG Number | - |
| IERG Number | 47 |
| IMO Marine Pollutant | Yes. Environmentally Hazardous Substance mark required. |
| IMDG EMS | F-A, S-F |
| Other Information | Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details. |

SECTION 15 – REGULATORY INFORMATION

National and or International Regulatory Information

Registered pursuant to the ACVM Act 1997, No. P9082
See www.nzfsa.govt.nz/acvm/ for registration conditions
Approved pursuant to the HSNO Act 1996, Approval Code HSR101014
See www.ermanz.govt.nz for approval controls

SECTION 16 – OTHER INFORMATION

This SDS contains only safety-related information. For other data see product literature.

CONTACT POINT:

| | | |
|--------------------------------------------------------------|------|------------------------------|
| Police and Fire Service: | Dial | 111 |
| National Poisons Information Centre: Hazardous Substances | Dial | 0800 POISON (0800 764 766) |
| Emergency Telephone Number: | Dial | 0800 CHEMCALL (0800 243 622) |