

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product Name: Ken-Met 600 WG 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: (24 Hours) 0800 243 622
National Poisons Information Centre : 0800 POISON (0800 764 766)
Use: For the control of gorse, blackberry, broom and other scrub
and broadleaf weeds in pasture, forestry and non-cropland
areas.

SECTION 2 – HAZARDS IDENTIFICATION

Hazard classification: 6.3B, 6.4A, 9.1A, 9.2A
Priority Identifier: ECOTOXIC
KEEP OUT OF REACH OF CHILDREN
Secondary Identifiers: 6.3B = Harmful – may cause skin irritation.
6.4A = Harmful – may cause eye 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
Metsulfuron methyl	74223-64-6	60 % w/w
Inert ingredients	secret	40 % w/w

SECTION 4 – FIRST AID MEASURES

Swallowed:	The product is not likely to be hazardous by ingestion. Seek medical attention if necessary.
Skin:	Wash contaminated skin with plenty of water. Remove contaminated clothing and wash before re-use.
Eyes:	Immediately irrigate with plenty of water for at least 15 minutes. Seek medical attention.
Inhaled:	Remove person to fresh air and keep at rest until fully recovered.

Advice to Doctor

No specific requirements. Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazards

Dangerous decomposition or Combustion Products

Thermal decomposition

Not a fire or explosion hazard. Extinguish fire with foam, water spray, dry powder, carbon dioxide (CO₂). On small fires, if area is heavily exposed to fire and if conditions permit let fire burn itself out since water may

increase the contamination hazard. Fine dust dispersed in air (particularly in confined spaces) may ignite if exposed to high temperature ignition source.

Hazardous decomposition products

None known

Hazardous reactions

None known

Extinguishing Media

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

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills and Disposal

Wear chemical resistant coveralls, gloves and boots. Wear eye protection and respiratory protection if there is a risk of dust/vapour inhalation/contact. Pick up bulk material by sweeping or other effective means and place into drums. Do not flush with water. If spill area is on ground near trees or other valuable plants, remove top 15cm of soil after initial cleanup. Should product contact soil, apply activated charcoal. Activated charcoal will absorb but not completely neutralise the product.

SECTION 7 – HANDLING AND STORAGE

Storage and Transport

Keep container tightly closed. Store in a secure, cool, well-ventilated area away from foodstuffs, seeds, fertilisers and human and/or animal health products.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards

None established for formulated product.

Ingredient	TWA mg/m³
Metsulfuron methyl AEL	10 mg/m ³ (8 and 12 hour TWA)
Worksafe	10 mg/m ³ ; dusts not otherwise classified

Engineering Control

Use only with adequate ventilation.

Personal Protective Measures

May irritate the eyes and skin. Avoid contact with eyes and skin. Do not inhale dust or spray mist. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Granules
Colour:	Off White
Odour:	None
Melting point (°C):	Not applicable
Boiling point (°C):	Not applicable
Vapour Pressure:	Not applicable
Bulk Density:	1.58 ± 0.01
Flashpoint:	Not applicable
pH (1% solution):	5.8

SECTION 10 – STABILITY AND REACTIVITY

Reactivity:

This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid:

Containers should be kept dry. Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatibilities:

Strong oxidising agents.

Fire Decomposition:

Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas. Oxides of sulphur (sulphur dioxide is a respiratory hazard) and other sulphur compounds. Most will have a foul odour. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death. Hydrogen cyanide poisoning signs and symptoms are weakness, dizziness, headache, nausea, vomiting, coma, convulsions, and death. Death results from respiratory arrest. Hydrogen cyanide gas acts very rapidly; symptoms and death can both occur quickly.

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity Data: (metsulfuron methyl)

Acute oral LD₅₀ (rats): > 5000 mg/kg

Acute dermal toxicity > 2000 mg/kg

LC₅₀ (96 h) Bluegill sunfish > 150 mg/L

LD₅₀ (mallard duck) > 2510 mg/kg

8 day oral LC₅₀ (bobwhite quail) > 5620 mg/kg

SECTION 12 – ECOLOGICAL INFORMATION

Breakdown of Chemical in Soil and Groundwater: The breakdown of Metsulfuron-methyl in soils is largely dependant on soil temperature, moisture content, and pH. The chemical will degrade faster under acidic conditions, and in soils with higher moisture content and higher temperature. The chemical has a higher mobility potential in alkaline soils than in acidic soils, as it is more soluble under alkaline conditions. Metsulfuron-methyl is stable to photolysis, but will break down in ultraviolet light. Half-life estimates for Metsulfuron-methyl in soil are wide ranging from 14 - 180 days, with an overall average of reported values of 30 days. Reported half-life values (in days) for soil include: clay - 178 ; sandy loam - 102 ; clay loam - 70 , 14-28 , 14-105 ; silty loam - 120-180. Breakdown of Chemical in Surface Water: The dissipation time for Metsulfuron-methyl was investigated in a mixed wood/boreal forest lake. The DT50 or length of time required for half of the material to dissipate in water was >84 days when high concentrations of Metsulfuron-methyl were applied, and 29.1 days at concentrations that might be expected if the chemical is applied for forestry uses. It is stable to hydrolysis at neutral and alkaline pHs, and has a half-life of 3 weeks at pH 5.0, 25°C and >30 days at 15°C. Breakdown of Chemical in Vegetation: Metsulfuron-methyl is rapidly taken up by plants at the roots and on foliage. The chemical is translocated throughout the plant, but is not persistent. It is broken down to non-herbicidal products in tolerant plants.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal

(1) After intended use:

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, break, crush or puncture and submit empty containers to a local authority refuse facility. Empty containers and product should not be burnt.

(2) After spill or accident

Pick up bulk material by sweeping or other effective means and place into drums. Do not flush with water. If spill area is on ground near trees or other valuable plants, remove top 15cm of soil after initial cleanup. Should product contact soil, apply activated charcoal. Activated charcoal will absorb but not completely neutralise the product. Cleanup crew should wear rubber gloves and protective clothing. Dispose of sealed containers at approved local waste disposal site.

SECTION 14 – TRANSPORT INFORMATION

UN Number (Sea Transport): 3077

IMO Proper Shipping: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. – (METSULFURON-METHYL, 60%), Class 9, Packing Group III.

SECTION 15 – REGULATORY INFORMATION

HSNO Approval Number: HSR000242

HSNO Controls (inc. Tracking and Record Keeping): See <http://www.epa.govt.nz> for controls.

ACVM Registration: P8293

ACVM Controls: See www.footsafety.govt.nz for registration conditions.

SECTION 16 – OTHER INFORMATION

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

CONTACT POINT:

Police, Ambulance and Fire Service:	Dial	111
National Poisons Information Centre:	Dial	0800 POISON (0800 764 766)
Hazardous Substances Emergency:	Dial	0800 Chemcall (0800 243 622)