



## Macspred Industrial Product Information Bulletin

**Product :** Enviromac® G (do not mix with water, use as a soil applied dry granule only).

**Active Ingredients :** 20 g / kg Sulfometuron Methyl.

**Use :** For the control of certain annual and perennial grasses and broadleaf weeds in commercial and industrial areas; around agricultural buildings and rights of way.

**Rate :** 7.5 to 15 kg per hectare for annual weeds and 15 to 30 kg per hectare for perennial weeds as directed by the label.

**Situation :** Enviromac® G is ideal for use around guide posts, guard rails, electrical installations, storage areas, railway lines, pump stations and other areas where continuous weed free conditions are required.

**Activity :** Sulfometuron methyl stops plant growth by inhibiting the biosynthesis of the essential amino acids valine and isoleucine in sensitive plants. Man does **not** produce these amino acids. This inhibition causes cell division and plant growth to stop. Both roots and shoots are effected.

The activity of Enviromac® G begins immediately after sufficient rainfall or soil moisture dissolves the granules and moves the Sulfometuron methyl into the soil profile. While visual symptoms such as chlorosis may not appear for several days, root and shoot growth of sensitive weeds are inhibited almost immediately, and the plants die in 7 to 21 days.

**Application Timing :** The best time to apply Enviromac® G is at the beginning of the expected seasonal flush of weeds. This will ensure that maximum length of control is obtained from the rate applied as no product is soaked up in controlling existing weed growth.

Enviromac® G should not be applied immediately prior to expected heavy rainfall as movement of the granules may cause off target damage. There is little or no movement once the active ingredient has entered the soil profile.

**Behaviour In The Environment :** Sulfometuron methyl degrades faster than most forestry and industrial weed control products. The degradation products are not phytotoxic. The half-life will vary depending on environmental conditions, but is generally in the range of 2 to 3 weeks. Conditions that favour hydrolysis (chemical degradation) and microbial action will shorten the half life.

Other factors such as pH, temperature and the organic matter (potentially high microbial activity), of the soil also hasten degradation. Generally the higher the temperature, more acidic the soil and higher the microbial activity, the shorter the half life.

The downward mobility of Sulfometuron methyl in the soil has been studied with field results showing that it does not readily leach. Several tests in the United States did not detect any product below 30 cm over a range of soils and conditions. With most of the product remaining in this zone, it does not reach the groundwater unless under very vulnerable conditions.

The toxicity of Sulfometuron methyl to man is quite low, the oral LD50 rating being > 5000 mg / kg. This means that a 70 kg man

would have to ingest 17.5 kg of Enviromac® G to have a 50% chance of consuming a lethal dose.

The LD50 ratings of other common compounds are :-

Caffeine	200	Picloram	>2000
2,4-D	700	Table salt	3000
Triclopyr	>2000	Glyphosate	>5000

Compounds rated as >5000 are considered as practically non toxic.

The toxicity to other animals in the environment is also quite low as indicated by the following LC50's and LD50's :-

Sheepshead minnow	>45 ppm
Rainbow trout	>12.5 ppm
Bluegill sunfish	>12.5 ppm
Crayfish	>5000 ppm
Mallard duck	>5000 mg/kg
Bobwhite quail	>5000 mg/kg
Earthworm	>1000 mg/kg

**Application Methods :** Enviromac® G may be applied by shaker pack or Weed-a-metre for spot treatments and by Forestmac GHD for strip treatments or Maruyama spreader for broadcast treatments.

**DISCLAIMER:** We make every reasonable attempt to ensure the accuracy of all statements made in this brochure. However, it is impossible to know the impact our products or the advice herein may have in your situation without first speaking with you in detail. The only way we can ensure that you receive the correct products and advice and the only way you can protect against unsuccessful and/or unwanted results is to speak to us in detail concerning your circumstances and requirements and follow the recommendations / instructions which appear on all product labels. We must therefore disclaim any responsibility for all statements and advice contained herein as well as any actions you may take having read this brochure. Accordingly, we strongly recommend that you closely follow all label directions and speak with us before using any of our products or relying upon any of the advice herein.

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