

Ambition

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Ambition
Pesticide Classification: Herbicide
UN No.: 3077

Supplier

Enviro Bio-Chem (Pty) Ltd
Co. Reg. No.: 2013/194774/07
44 Kerk Street, Lichtenburg
North West, South Africa 2740

Registration Holder

Erintrade CC t/a RT Chemicals
Co. Reg. No.: CK2001/036403/23
44 Kerk Street, Lichtenburg
North West, South Africa 2740

Telephone: +27 87 231 7261
Fax: 086 541 7948
Website: www.envirobiochem.co.za

24 Hr Emergency Number: Bateleur: +27 83 123 3911

In case of Poisoning:

Poison Information Centre: +27 82 446 8946
Tygerberg Hospital: (+27 21) 931 6129
Poison Emergency Enquiries: (+27 21) 689 5227

Common Name: Metsulfuron-methyl 600 g/kg WG
Chemical Name: methyl-[[[4-methoxy-6-methyl-1,3,5-triazine-2-yl)aminocarbonyl]aminosulfonyl] benzoate
Empirical Formula: C₁₄H₁₅N₅O₆S
CAS No.: 74233-64-6
RSA Reg. No.: L7678 Act/Wet No. 36 of/van 1947

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>Concentration</u>
Metsulfuron-methyl	≥ 60%
Inert Ingredients	≤ 40%

3. HAZARD IDENTIFICATION

Hazard Class: WHO Class III -Slightly hazardous.

Main Hazard: It will cause eye irritation.

Flammability: Not a fire or explosion hazard.

Chemical Hazard: Like most organic powders or crystals, under severe dusting conditions, this material may form an explosive mixture in air.

Biological Hazard: The chemical has a higher mobility potential in alkaline soils than in acidic soils, as it is more soluble under alkaline conditions.

4. FIRST AID MEASURES AND PRECAUTIONS

If poisoning is suspected, do not wait for symptoms to develop. Contact a physician, the nearest hospital, or the nearest Poison Control Centre.

Symptoms of Human Poisoning: No signs and symptoms of poisoning are known or expected in humans.

First Aid Measures:

Skin Contact: Remove contaminated clothing and wash before reuse. Wash affected skin areas with fresh running water and soap. Treat symptomatically. Seek medical attention if symptoms persist.

Eye Contact: In case of 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. If eye symptoms (redness, irritation or pain) persist refer patient to ophthalmologist for examination of eyes.

Ingestion: No specific intervention is indicated as compound is not likely to be hazardous by ingestion. Consult a physician if necessary. Have the product container or label with you when calling a poison control center or physician.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Advice to Physician: Treat symptomatically.

Antidote: There is no specific antidote for poisoning with this product.

5. FIRE FIGHTING MEASURES

Flammability: Not a fire or explosion hazard.

Extinguishing Media: Water Spray, Foam, Dry Chemical, CO₂.

Firefighting: Evacuate personnel to a safe area. Wear self-contained breathing apparatus. Wear full protective equipment. Use water spray. Runoff from fire control may be a pollution hazard. If area is exposed to fire and conditions permit, let fire burn itself out. Burning chemicals may produce by-products more toxic than the original material. If product is on fire, wear self-contained breathing apparatus and full protective equipment. Use water spray. Control runoff.

Special Hazards: Like most organic powders or crystals, under severe dusting conditions, this material may form an explosive mixture in air.

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal Precautions: Review Section 5 and Section 7 of this document before proceeding with clean-up. Use appropriate personal protective equipment during clean-up as directed in Section 8 of this document.

Environmental precautions: Prevent spilled material from entering drains or watercourses. Contain spill and absorb with earth, sand, clay or other absorbent material.

Spills: Dike spill. Prevent material from entering sewers, waterways or low areas. Dispose of product waste according to Section 13 of this document.

7. HANDLING AND STORAGE REQUIREMENTS

Handling (Personnel): Avoid breathing vapours or mist. Avoid breathing dust. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Wash clothing after use. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Users Should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Handling (Physical Aspects): Keep away from heat, sparks and flames.

Storage: Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a cool, dry place. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Acceptable Daily Intake (ADI): No data available.

Engineering Controls: Use only with adequate ventilation.

Clothing: Long-sleeved shirt, long pants, shoes plus socks, protective waterproof (impermeable) gloves. Employee must wear appropriate protective clothing and equipment to prevent prolonged skin contact with this product. Clothing soaked with product solution should be promptly removed and laundered before re-use.

Gloves: Protective waterproof (impermeable) rubber or plastic gloves are recommended.

Eye Protection: Wear eye protection. During mixing or pouring operations or other activities in which eye contact with undiluted product is likely to occur, splash goggles should be worn. Where there is any possibility that an employee's eyes may be exposed to this substance the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

Respiratory: Respiratory protection is not required for normal use and handling. During periods of abnormal exposure to heavy spray or mist, use a NIOSH approved dust/mist respirator. Limitations of respirator use specified by the approving agency and the manufacturer must be observed.

Other Protection: Do not eat, drink or smoke while handling this product. Prevent contamination of food, feeds, drinking water and eating utensils. After using this product wash hands and face before eating. Take extreme care to avoid drift. Wash accurately (preferably a shower) after work shift. Wash hands during breaks and at the end of the work with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor: Slight

Form: Solid granule.

Color: Light off-white.

Solubility in Water: Dispersible

Bulk Density (Tap Bulk Density): 0.64 - 0.74 g/ml

pH value: 5 - 8

Suspensibility: 90 %min

Wetting Time: ≤60 s

Dispersion: ≥90%

Fineness (through 44µm sieve): ≥98%

Mobility (through 5MM sieve): ≥99%

Persistent Foam (after 1min): ≤25ml

10. STABILITY AND REACTIVITY

Stability: Stable at normal temperatures and storage conditions.

Conditions to Avoid: No data available.

Incompatible Materials: Do not use in conjunction with organophosphate insecticides.

Decomposition Products: Combustion or thermal decomposition may generate toxic and irritant vapours.

11. TOXICOLOGICAL INFORMATION

Acute toxicity based on active ingredient toxicity.

Acute Oral LD₅₀ (rat): >5 000 mg/kg. Very low toxicity.

Acute Dermal LD₅₀ (rabbit): >2 000 mg/kg. Slight to moderate toxicity.

Acute Inhalation LC₅₀ (rat, 4 hr): > 5.3 mg/l. Very low toxicity.

Skin and Eye Irritation (rabbit): Mild skin and eye irritant.

Sensitization: Product is not a skin sensitizer.

Chronic Dietary Study: Repeated oral doses of metsulfuron-methyl produced decreased body weight gain and decreased liver weights when compared to the control group. Long-term administration caused body weight loss.

Carcinogenicity: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen. Animal testing indicates that metsulfuron-methyl does not have carcinogenic effects.

Mutagenicity: No data available.

Reproductive Hazard: Animal testing indicates that metsulfuron-methyl does not have developmental or reproductive effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity based on active ingredient toxicity.

Aquatic Toxicity Fish LC₅₀ (96 hr): >150 mg/l (rainbow trout); >150 mg/l (bluegill sunfish).

Aquatic Toxicity Daphnia LC₅₀ (48 hr): >120 mg/l

Aquatic Toxicity Algae EC₅₀ (5 days): No data available.

Avian Toxicity LD₅₀: >2 510 mg/kg (mallard duck); >5 620 mg/kg (bobwhite quail). Low toxicity to birds.

Bee Toxicity LD₅₀ (Oral): >44.3 µg/bee. Non-toxic to bees.

Biodegradability: In soil, metsulfuron-methyl is broken down both by chemical hydrolysis and by microbial degradation. The average DT₅₀ in a range of field soils is 52 days, with faster degradation in acidic soils.

Bio-accumulation: No data available.

Mobility: The chemical has a higher mobility potential in alkaline soils than in acidic soils, as it is more soluble under alkaline conditions.

13. DISPOSAL CONSIDERATION

Pesticide Disposal: Dispose of waste product as hazardous waste via a licensed disposal contractor to an approved landfill. Do not discharge into drains or sewers. Do not contaminate crops, grazing, rivers or dams with chemical or used container. Waste resulting from the use of this product that cannot be re-used or reprocessed should be disposed of in a landfill approved for pesticide disposal in accordance with applicable local procedures. Comply with any local legislation applying to waste disposal.

Package Product Wastes:

Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration.

Fiber Sacks: Completely empty fiber sack by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into manufacturing or application equipment. Then dispose of sack in a sanitary landfill or by incineration if allowed by state and local authorities.

Fiber Drums with Liners: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration. If drum is contaminated and cannot be re-used, dispose of in the same manner.

Bags Containing Water Soluble Packets: Do not re-use the outer box or the resealable plastic bag. When all water-soluble packets are used, the outer packaging should be cleaned and may be disposed of in a sanitary landfill or by incineration. If the resealable plastic bag contacts the formulated product in any way, the bag must be triple-rinsed with clean water. Add the rinsate to the spray tank and dispose of the outer wrap as described above.

Metal Containers (non-aerosol): Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill.

Paper and Plastic Bags: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration.

14. TRANSPORT INFORMATION

UN No.: 3077

Hazard Class: 9

Packing Group: III

Proper Shipping Name: Environmental Hazardous Substance; Solid; N.O.S (contains Metsulfuron-methyl)

15. REGULATORY INFORMATION

Risk Phrases: R36/37/38- Irritating to eyes, respiratory system and skin.

R50- Very toxic to aquatic organisms.

Safety Phrases: S1/2- Keep locked up and out of the reach of children.

S22- Do not breathe dust.

S24/25- Avoid contact with skin and eyes.

S36/39- Wear suitable protective clothing and eye/face protection.

S61- Avoid release to the environment. Refer to special instructions/safety data sheets.

National Legislation: This product is registered under Act 36 of 1947 of the Republic of South Africa. It is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions.

16. OTHER INFORMATION

Note: Read and understand all the information on the product label before using the product.

Disclaimer: The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed. All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

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