

SAFETY DATA SHEET

SECTION 1

IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **Apparent Blaze Herbicide**

Other Names: Imazapic, Group B Herbicide.
Use: An agricultural Herbicide for fallow, sugar cane and peanuts.
Company: Apparent Pty Ltd
Address: Suite G.08, 762 Toorak Road, Hawthorn East, Vic. 3123.
PO Box 3092, Cotham PO, Kew, Vic 3101
ACN/ABN: 143 724 136
Telephone Number: 03 9822 1321
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Email: wardell@bigpond.net.au

SECTION 2

HAZARDS IDENTIFICATION

**Not classified as hazardous according to criteria of Safe Work Australia.
Not classified as a Dangerous Good according to the ADG Code.**

SECTION 3

COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

<i>CHEMICAL</i>	<i>CAS NUMBER</i>	<i>PROPORTION</i>
Imazapic, present as the ammonium salt	104098-48-8	240 g/L
Other ingredients (including water) determined not to be hazardous		Balance

SECTION 4

FIRST AID MEASURES

FIRST AID

Ingestion: If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 131 126. Wash mouth with water and give water to drink.

Eye contact: If in eyes, immediately flush with clean water until chemical is removed. If irritation occurs and persists, obtain medical attention.

Skin contact: Wash skin with soap and water. If skin irritation persists, seek medical advice. Remove contaminated clothing and launder before re-use.

Inhalation: Remove to fresh air and observe until recovered. If effects persist, seek medical advice. Not expected to be a source of over-exposure.

Advice to Doctor: Treat symptomatically.

SECTION 5

FIRE FIGHTING MEASURES

Specific Hazard: Generally considered a low risk. Not flammable.

Extinguishing media: No risk of explosion if involved in a fire. Extinguish fire using media suited to burning material. If containers are ruptured contain all runoff.

Hazards from combustion products: Product is likely to decompose after heating to dryness and continued strong heating and will emit toxic fumes. Firefighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or smoke.

SECTION 5 FIRE FIGHTING MEASURES (continued)

Precautions for fire-fighters and special protective equipment: Isolate fire area. Evacuate downwind residents. Wear full protective clothing and self contained breathing apparatus. Do not breathe smoke or vapours generated.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergence procedures / Material and methods for containment and cleanup procedures:

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and PVC gloves. Eye/face protective equipment should comprise as a minimum, protective glasses and preferably, goggles. If there is a significant chance that dusts are likely to build up in the cleanup area, the use of a suitable dust mask is recommended.

In the case of spillage, stop leak if safe to do so, and contain spill. Contain spill and sweep up and shovel or collect recoverable material into labelled containers for use, recycling or dispose as waste as indicated in section 13 or according to the Australian Standard 2507 - Storage and Handling of Pesticides. To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to the drums of wastes already collected and label contents. Keep out animals and unprotected persons.

After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Launder protective clothing before storage or re-use.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling: Will irritate the eyes. Avoid contact with eyes. When opening the container and preparing spray, wear elbow-length PVC gloves. Wash hands after use. After each day's use, wash gloves.

Conditions for Safe Storage: Store in the closed, original container, in a dry, cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Not classified as a Dangerous Good. Do not re-use container for any purpose.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

No exposure limits have been assigned by Safe Work Australia to the ingredients in this product.

Biological Limit Values:

No biological limit allocated.

Engineering controls:

Keep containers closed when not in use. No special engineering controls are required, however make sure that the work environment remains clean and that vapours are minimised.

Personal Protective equipment (PPE):

When opening the container and preparing spray, wear elbow-length PVC gloves. Wash hands after use. After each day's use, wash gloves.

Personal Hygiene: Clean water should be available for washing in case of eye or skin contamination. Wash skin before eating, drinking or smoking. Shower at the end of the workday.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark yellow watery liquid.
Odour:	Characteristic odour.
Boiling point:	No data available.
Freezing point:	No data available – solid at room temperature.
Specific Gravity:	Approximately 1.1 g/mL.
Solubility in Water:	Soluble.
pH:	6 - 7.

SECTION 9 **PHYSICAL AND CHEMICAL PROPERTIES (Continued)**

Flammability:	Not flammable.
Flashpoint (°C):	Not flammable.
Poisons Schedule:	Not a scheduled poison.
Formulation type:	Soluble Concentrate (SL).

SECTION 10 **STABILITY AND REACTIVITY**

Chemical Stability: Product is considered stable in ambient conditions for a period of at least 2 years after manufacture.

Conditions to avoid: Do not store for prolonged periods in direct sunlight.

Incompatible materials: Avoid strong acids, bases and strong oxidizing agents.

Hazardous decomposition products: If the water is evaporated the product is burned it will produce oxides of carbon and nitrogen and other toxic fumes are likely to be formed.

Hazardous reactions: Polymerisation will not occur.

SECTION 11 **TOXICOLOGICAL INFORMATION**

No specific data is available for this product as no toxicity tests have been conducted on this product. Information presented is our best judgement based on similar products and/or individual components. As with all products for which limited data is available, caution must be exercised through the use of protective equipment and handling procedures to minimise exposure.

Potential Health Effects:**ACUTE EFFECTS**

Swallowed: Low acute toxicity. Acute Oral LD₅₀ > 5,000 mg/kg.

Eye: This product may be a slight irritant to the eyes.

Skin: This product may be a slight irritant to the skin. Acute dermal LD₅₀ > 5,000 mg/kg.

Inhaled: Inhalation of mists or sprays may produce respiratory irritation. The estimated LC₅₀ is > 2.38 mg/L/4 hours.

Long Term Exposure:

Chronic toxicity: No evidence of mutagenicity or teratogenicity in animal tests. In experimental animal studies with the active constituent, anaemia and liver effects were seen at high doses, while muscular effects were seen at lower doses. Imazapic does not appear to be toxic to experimental rodents at relatively high concentrations in the diet. Dogs, however, appear to be more sensitive than rodents, and the major signs of toxicity include adverse effects on the muscle, blood, and liver. Fate in humans and animals: The metabolism and kinetics of imazapic have been studied in rats, hens, and goats. These studies suggest that imazapic is rapidly excreted in the urine, principally as the parent compound (i.e., imazapic). Imazapic does not accumulate (build up) in tissues.

SECTION 12 **ECOLOGICAL INFORMATION**

Environmental Toxicology: No information is available for the product. The following information refers to the active ingredient, imazapic. Low toxicity to fish - rainbow trout, bluegill sunfish and channel catfish LC₅₀ > 100 mg/L. Algae EC₅₀ > 0.1 mg/L. Low toxicity to birds - LD₅₀ bobwhite quail > 2150 mg/kg; LD₅₀ Japanese quail > 2000 mg/kg. The LC₅₀ for water fleas (*Daphnia magna*) is > 100 mg/L.

Environmental Fate: Degradation is primarily by microorganisms. Half life in the field is 31-310 days, half life in water is < 8 hours - degradation by photolysis. Does not bioaccumulate (log K_{ow} = 0.393). Does not accumulate in soils or water. It does not bioconcentrate (build up) through the food chain. Imazapic is adsorbed through the leaves and the roots where it is transported to other parts of the plant. DO NOT contaminate streams, rivers or water courses.

SECTION 13**DISPOSAL CONSIDERATIONS**

Spills and Disposal: Persons involved in cleanup require adequate skin protection - see section 8. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities. In rural areas contact ChemClear <http://www.chemclear.com.au> for help with collection of unwanted rural chemicals.

Disposal of empty containers: S Triple or preferably pressure rinse containers before disposal. Add rinsate 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should NOT be burnt. Empty containers and product should not be burnt. For help with disposal of empty containers contact DrumMuster <http://www.drummuster.com.au> for details for your area.

SECTION 14**TRANSPORT INFORMATION**

Road & Rail Transport: This product is not classified as a Dangerous Goods under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Marine and Air Transport: Product is a not classified as a Dangerous Good according to International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA).

SECTION 15**REGULATORY INFORMATION**

Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is not a scheduled poison.

This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. Product Registration No. 68863.

This product is not classified as a Hazardous Substance under the criteria of Safe Work Australia.

This product is not classified as a Dangerous Good according to the ADG Code (7th Ed).

This product is not classified as a Dangerous Good according to International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA).

Requirements concerning special training:

Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

SECTION 16**OTHER INFORMATION**

Issue Date: 1 July 2014. Valid for 5 years. (First issue).

Key to abbreviations and acronyms used in this SDS:

ADG Code: Australian Dangerous Goods Code (for the transport of dangerous goods by Road and Rail).

Carcinogen: An agent which is responsible for the formation of a cancer.

Genotoxic: Capable of causing damage to genetic material, such as DNA.

HSIS: Hazardous Substances information System.

Lacrimation: The production, secretion, and shedding of tears.

Lavage: A general term referring to cleaning or rinsing.

Mutagen: An agent capable of producing a mutation.

NOHSC: National Occupational Health and Safety Commission.

OCS: Office of Chemical Safety.

Pneumonitis: A general term that refers to inflammation of lung tissue.

PPE: Personal protective equipment.

Teratogen: An agent capable of causing abnormalities in a developing foetus.

TWA: The Time Weighted Average airborne concentration over an eight-hour working day, for a five day working week over an entire working life.

SECTION 16 OTHER INFORMATION (Continued)

Safe Work Australia: Formally known as Australian Safety & Compensation Council (ASCC) which was formally known as the National Occupational Health & Safety Commission (NOHSC).

References

1. "Search Hazardous Substances". HSIS. Safe Work Australia website. (2014).
2. "Approved Criteria for Classifying Hazardous Substances" 3rd Ed. NOHSC Australia. [NOHSC:1008 (2004)]. October 2004.
3. Globally Harmonized System of Classification and Labelling of Chemicals (GHS). United Nations, 2009.

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

End SDS