

SAFETY DATA SHEET



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Date of Issue: February 2014
MSDS No. FMC/IMA240/1

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: FMC IMAZAPIC 240 HERBICIDE

Other Names: Imazapic. Group B Herbicide.
Use: An agricultural herbicide for control of broadleaf and grass weeds.
Company: FMC Australasia Pty Ltd.
Address: 5 Palmer Place, Murarrie, Qld 4172
Telephone Number: 07 3908 9208 **Fax Number:** 07 3908 9221
Emergency Telephone Number: 1800 033 111 (All hours - Australia wide).

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:

CHEMICAL	CAS NUMBER	PROPORTION
Imazapic, present as the ammonium salt	104098-48-8	240 g/L
Other ingredients (considered non-hazardous)	-	Balance

SECTION 4 FIRST AID MEASURES

FIRST AID

Swallowed: If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 13 11 26.
Eye: If in eyes, immediately flush with copious amounts of water until chemical is removed. If irritation occurs and persists, obtain medical attention.
Skin: Remove contaminated clothing and launder before re-use. Wash skin with soap and water. If skin irritation persists, seek medical advice s.
Inhaled: Remove to fresh air and observe until recovered..

Advice to Doctor: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Specific Hazard: FMC Imazapic 240 Herbicide is not flammable. Generally considered a low risk due to the water content, but once the water has evaporated the product is combustible.

Extinguishing media: Choose extinguishing media to suit burning material. Prevent run off from entering drains or waterbodies.

Hazards from combustion products: If product is involved in a fire and the water component has evaporated, the product may be combustible and when burned will produce oxides of carbon and nitrogen. Will not polymerise.

Precautions for fire-fighters and special protective equipment: Isolate fire area. Evacuate downwind. Firefighters to wear self-contained breathing apparatus and suitable protective clothing if risk to of exposure to vapour or smoke. Do not breathe or contact smoke, gases or vapours generated.

SECTION 6 ACCIDENTIAL RELEASE MEASURES

Emergency procedures: Isolate and post spill area. Wear as a minimum, cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow length PVC gloves. Large spills should be dyked or covered to prevent dispersal. Vacuum, shovel or pump spilled material into an approved container and dispose of as listed below. Keep out unprotected persons and animals.

Material and methods for containment and cleanup procedures: 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. Absorb, as above, any excess liquid and add both solutions to the drums of waste already collected. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities. Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

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SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling: Ensure containers are kept closed until using product. 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 cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:

No exposure guideline has been established for this product by safe Work Australia.

Biological Limit Values:

No biological limit allocated.

Engineering controls:

Use in ventilated areas - generally natural ventilation is sufficient. Keep containers closed when not in use. No special engineering controls are required.

Personal Protective equipment (PPE):

General: Will irritate the eyes. Avoid contact with eyes. When opening the container and preparing spray, wear elbow-length PVC gloves.

Personal Hygiene: Wash hands after use. After each day's use, wash gloves and contaminated clothing. Clean water should be available for washing in case of eye or skin contamination. 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.
Specific Gravity:	Approximately 1.1 g/mL.
pH:	6 – 7 (1% solution).
Solubility in Water:	Soluble in water.
Flammability:	Not classified as a combustible liquid.
Flashpoint (°C):	Not flammable.
Flammability Limits (%):	Not established.
Poison Schedule:	Product is not a scheduled poison.
Formulation type:	Soluble concentrate.

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 oxidizing agents.

Hazardous decomposition products: Product is unlikely to decompose until heated to dryness. On further heating will emit toxic fumes.

Hazardous reactions: No particular reactions to avoid. Will not polymerise.

SECTION 11 TOXICOLOGICAL INFORMATION

Potential Health Effects:

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.

Acute

Swallowed: Low acute oral toxicity. The estimated Acute Oral LD₅₀ (rat) > 5000 mg/kg.

Eye: The concentrate may be a slight irritant to the eyes.

Skin: This product may be a slight irritant to the skin. Low acute toxicity. The estimated LD₅₀ > 5000 mg/kg. Product is not a skin sensitiser.

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

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.

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.

Environmental Properties: 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. DO NOT contaminate streams, rivers or water courses.

SECTION 13 DISPOSAL CONSIDERATIONS

Spills & Disposal: Isolate and post spill area. Wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and PVC gloves. In case of spillage, contain and absorb spilled material with absorbent material such as clay, sand or cat litter. Large spills should be dyked or covered to prevent dispersal. Keep out animals and unprotected persons. 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.

Disposal of empty containers: Triple or preferably pressure rinse containers before disposal. Add rinsings to tank mix. Do not dispose of undiluted chemicals on-site. If not recycling, break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility.

SECTION 13 DISPOSAL CONSIDERATIONS (Continued)

If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. In rural areas contact ChemClear <http://www.chemclear.com.au> for help with collection of unwanted rural chemicals.

DO NOT burn empty containers or product.

SECTION 14 TRANSPORT INFORMATION

Transport Information: It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.

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

Not classified as a hazardous substance according to criteria of Safe Work Australia.

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. 69495.

Product is not classified as a Dangerous Good according to the ADG Code (7th Ed). International Maritime Dangerous Goods (IMDG) Code or 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: 14 February 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.

Clonic: An abnormality in neuromuscular activity characterized by rapidly alternating muscular contraction and relaxation.

Combustible Liquid: Liquids that ignite with a flash point greater than 60°C.

Flammable Liquid: Liquids that ignite with a flash point less than 60°C.

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

Haematopoietic: Pertaining to the formation of blood or blood cells.

Lavage: The irrigation or washing out of an organ, as of the stomach or bowel.

Mutagen: An agent capable of producing a mutation.

Oedema: Accumulation of fluid in tissues.

NOHSC: National Occupational Health and Safety Commission.

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

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

SECTION 16 | OTHER INFORMATION (Continued)

References

1. "Search Hazardous Substances". 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