

SAFETY DATA SHEET



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Date of Issue: April 2018
SDS No. FMC/HARR/1

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: HARRIER 700 WG HERBICIDE

Other Names: Imazamox. Acetolactate synthase (ALS) inhibitor. Group B Herbicide.
Use: A grass & broadleaf agricultural water dispersible granule herbicide.
Company: FMC Australasia Pty Ltd.
Address: 12 Julius Ave, North Ryde, NSW 2113.
Telephone Number: Freecall 1800 624 597 (Business hours).
Emergency Telephone Number: 1800 033 111 (24 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.**

Not subjected to the ADG code when transported in Australia by Road or Rail in packages 500 kg (L) or less; or in IBC's (refer to SP AU01). However, if transported by Air or Sea, this provision does not apply. Then the product is classed as Dangerous (Class 9 Environmentally Hazardous) by IATA and IMDG respectively. See Section 14 of this SDS for details.

* Under Safe Work Australia this product is not classified as a hazardous substance. Under the Globally Harmonised System (GHS) this product is a hazardous substance with the following environmental classification:

Globally Harmonised System (GHS) Classification:

Hazardous to the aquatic environment – Long term hazard: Category 1.

Hazard statement:

H410 Very toxic to aquatic life with long lasting effects.

Signal Word: WARNING

Precautionary Statements:

Prevention:

P273 Avoid release to the environment.

Response:

P391 Collect spillage.

Disposal

P501 Dispose of contents and container in accordance with label directions.

Pictogram:



SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**Ingredients:****CHEMICAL**

Imazamox

Other ingredients determined not to be hazardous

CAS NUMBER

114311-32-9

PROPORTION700 g/kg
mixture**SECTION 4 FIRST AID MEASURES****FIRST AID****Swallowed:** If swallowed wash mouth with water. If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 131 126. Give water to drink.**Eye:** If in eyes, gently brush granules away immediately, and rinse with copious amounts of water.**Skin:** If on skin gently brush granules away. Wash skin with soap and water. Irritation of the skin is not expected. Launder contaminated clothing before re-use.**Inhaled:** Remove patient to fresh air.**Advice to Doctors:** Treat symptomatically. No specific antidote.**SECTION 5 FIRE FIGHTING MEASURES****Specific Hazard:** There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.**Extinguishing media:** Dry powder, alcohol resistant foam or dry chemical. DO NOT use carbon dioxide for safety reasons. Soft stream water fog if no alternatives. Do not scatter spilled material with high pressure water jets. Contain all runoff.**Hazards from combustion products:** When involved in a fire product will emit toxic and irritant fumes. Fire will produce smoke containing hazardous products of combustion.**Precautions for fire-fighters and special protective equipment:** Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe or contact smoke, gases or vapours generated.**SECTION 6 ACCIDENTAL RELEASE MEASURES****Emergency procedures:** Isolate and post spill area. Keep out unprotected persons and animals. Wear cotton overalls buttoned to the neck and wrist, and face shield or goggles. Isolate and post spill area. Keep out unprotected persons and animals. 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 in Section 13 or according to the Australian Standard 2507 - Storage and Handling of Pesticides.**Material and methods for containment and cleanup procedures:** To clean spill area, tools and equipment, wash with a solution of soap, water and acetic acid/vinegar. Follow this with a neutralisation step of washing the area with a bleach or caustic soda ash solution. Finally, wash with a strong soap and water solution. Absorb, as above, any excess liquid and add both solutions to the drums of waste already collected.

Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways. This product is a herbicide and spills can damage crops, pastures and desirable vegetation. Prevent from entering drains, waterways or sewers. Use earthen bunds to prevent spreading of spillage.

SECTION 7 | HANDLING AND STORAGE

Precautions for Safe Handling: Ensure containers are kept closed until using product. Avoid dust formation. Dust can form an explosive mixture with air. Will irritate the eyes. When opening the container and preparing spray, wear face shield or goggles. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash face shield or goggles.

Conditions for Safe Storage: Keep out of reach of children. Store in the closed, original container in a dry, cool, well-ventilated area, out of direct sunlight. DO NOT store near food, feedstuffs, fertilisers or seed. DO NOT dispose of any undiluted chemical on-site. Protect from temperatures above 40°C as changes to the properties of the product may occur if stored above this temperature.

SECTION 8 | EXPOSURE CONTROLS / PERSONAL PROTECTION**National Exposure Standards:**

No exposure guidelines have been established for the active ingredient in this product by Safe Work Australia.

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 dusts and mists are minimised.

Personal Protective Equipment (PPE):

General: When opening the container and preparing spray, wear face shield or goggles. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash face shield or goggles.

Personal Hygiene: Will irritate the eyes. 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:	Light tan/off white granules.
Odour:	Weak odour.
Boiling point:	No data available.
Freezing point:	No data available.
Specific Gravity:	Not applicable.
pH:	No data available.
Solubility in Water:	Product disperses in water.
Flammability:	Not flammable.
Flashpoint (°C):	Not flammable.
Flammability Limits (%):	Not established.
Poisons Schedule:	Product is a Schedule 5 (S5) poison.

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. Keep dry.

Incompatible materials: Strong oxidizing agents, acids and bases.

Hazardous decomposition products: This product is will decompose when burnt. On burning will produce smoke containing toxic and irritant fumes.

Hazardous reactions: Polymerisation is unlikely.

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 toxicity. Acute Oral (rat) LD₅₀ > 5000 mg/kg.

Eye: This product is a mild eye irritant. The granules can also cause physical discomfort if in the eye.

Skin: Low acute dermal toxicity. Acute Dermal LD₅₀ > 4,000 mg/kg.

Inhaled: Low acute inhalation toxicity. Acute inhalation LC₅₀ 5.8 mg/L/4hr.

Chronic toxicity: In chronic tests, imazamox did not cause tumours, birth defects or reproductive toxicity in test animals. Most studies show no evidence of mutagenicity. Imazamox is not metabolized and was excreted by mammals tested. Based on its low acute toxicity to mammals, and its rapid disappearance from the water column due to light and microbial degradation and binding to soil, imazamox is not considered to pose a risk to humans when used as directed.

SECTION 12 ECOLOGICAL INFORMATION

Environmental Toxicology: This product biodegrades in the environment. It will not accumulate in the soil or water or cause long term problems. Imazamox is practically non-toxic to birds with no treatment related effects at the maximum doses used, approximately 2000 mg/kg bw and 5000 mg/kg (in feed) respectively. Imazamox is non-toxic to bees and earthworms. It did not affect the respiration or nitrification of soil microbes at 150 g ai/ha. Imazamox is rated as practically non-toxic to fish and *daphnia magna*. Imazamox is highly toxic to algae and aquatic plants with LC₅₀ > 0.011 mg/L.

Environmental Properties: Typical field half-life in soil is 4.5 to 41 days. Imazamox breaks down slowly in sunlight, in the field half-lives varied from 2 days to 65 days, generally faster in water than in soil. Hydrolysis is not expected under normal environmental conditions. Bioconcentration is not expected to be significant. Imazamox has high mobility in most soils except at low pH or high clay content. However, in the field dissipation studies there was no leaching detected.

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. Ideally, the product should be used for its intended purpose. 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.

Disposal of empty containers: Triple-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 deliver empty packaging to an approved waste management facility. 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. Do not burn empty containers or product.

SECTION 14 TRANSPORT INFORMATION

Road & Rail Transport: Harrier 700 WG Herbicide is exempt from classification as a Dangerous Good in packs less than 3,000 kg under the Australian Code for the Transport of Dangerous Goods by Road and Rail. For bulk shipments this product is a class 9, UN 3082. (See special provision AU01).

Marine and Air Transport: Harrier 700 WG Herbicide is classified as a Marine Pollutant according to International Maritime Dangerous Goods (IMDG) Code and the International Air transport Association (IATA). If transporting by sea or air the following Dangerous Goods Classification applies:-
UN 3077, Class 9 (Miscellaneous Dangerous Goods), Packing Group III, Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains 70% IMAZAMOX).
Hazchem code •2Z. Hazard Identification Number (HIN) 90.

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 a Schedule 5 poison.

This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. Product Registration No. 69719.

This product is not classified as a Dangerous Good according to the ADG Code for packs less than 3000 litres (SP AU01) (7th Ed).

This product is 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: 16 April 2018. Valid for 5 years till 16 April 2023. (Updated format).

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).
Ataxia:	Inability to control the coordinate movements of the muscles.
Bradycardia:	Is a resting heart rate of under 60 beats per minute (adults).
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.
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).

References

1. "Search Hazardous Substances". Safe Work Australia website. (2018).
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.

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SECTION 16 | OTHER INFORMATION (Continued)

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