

Safety Data Sheet

according to WHS Regulations

Printing date 23.06.2021

Revision: 23.06.2021

1 Identification

Product Name: GENFARM IMAZA-COMBI HERBICIDE

Other Means of Identification: Mixture

APVMA Number: 83142

Recommended Use of the Chemical and Restriction on Use: Agricultural herbicide

Details of Manufacturer or Importer:

Nutrien Ag Solutions

Level 5, Building A

26 Talavera Road

Macquarie Park NSW 2113

Phone Number: 02 9889 5400

Emergency telephone number: 1800 033 111

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



Environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Aquatic Acute 2 H401 Toxic to aquatic life.

Signal Word None

Hazard Statements

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

CAS: 57-55-6	Propylene glycol	10%
CAS: 114311-32-9	Imazamox	3.3%
	⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 81334-34-1	Imazapyr	1.5%
	⚠ Serious Eye Damage/Irritation 2, H319; Aquatic Chronic 3, H412	

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4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May be slightly irritating to mucous membranes of the respiratory tract.

Skin Contact: May cause skin irritation and redness.

Eye Contact: May cause eye irritation, redness and lachrymation.

Ingestion: May cause irritation to mucous membranes of the gastrointestinal tract.

5 Fire Fighting Measures

Suitable Extinguishing Media: Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon, oxides of nitrogen and ammonia.

Product is not flammable but may decompose in a fire.

Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Prevent firefighting run off from entering drains and water courses.

Hazchem Code: +3Z

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots.

Evacuate all non-essential personnel from affected area. Do not breathe vapours or spray mist. Ensure adequate ventilation.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

For large spills, dike the area and pump up the spill. Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours or spray mist. Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other

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protective equipment before storage or re-use.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed. Protect from extreme temperatures, heat and direct sunlight. Do not expose to temperatures below -10 °C or above 40 °C. Keep away from strong acids, strong bases and strong oxidising agents.

8 Exposure Controls and Personal Protection

Exposure Standards:**CAS: 57-55-6 Propylene glycol**

NES	TWA: 474* 10** mg/m ³ , 150* ppm *vapour & particulates,**particulates only
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Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour or spray mist below occupational exposure standards.

Respiratory Protection: Respiratory protection is not required under normal use conditions.

Skin Protection:

Wear nitrile rubber, chloroprene rubber or butyl rubber gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Handle with occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Use eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form:	Liquid
Colour:	Yellow to amber
Odour:	Faint, aliphatic
Odour Threshold:	No information available
pH-Value at 20 °C:	5 - 7 (undiluted product)
Melting point/freezing point:	-14 °C (approximate)
Initial Boiling Point/Boiling Range:	100 °C (approximate)
Flash Point:	Not applicable
Flammability:	Product is not flammable
Ignition Temperature	398 °C
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	Not applicable
Upper:	Not applicable
Vapour Pressure at 20 °C:	23.3 hPa (approximate)
Density at 20 °C:	1.07 g/cm ³ (approximate)
Vapour Density:	Not applicable
Evaporation Rate:	No information available

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Solubility in Water: Soluble
Partition Coefficient (n-octanol/water): Not applicable

10 Stability and Reactivity

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

Chemical Stability: Stable at ambient temperature and under normal conditions of storage and use.

Conditions to Avoid: Temperatures below -10 °C or above 40 °C and prolonged storage in direct sunlight.

Incompatible Materials: Strong acids, strong bases and strong oxidising agents.

Hazardous Decomposition Products: Oxides of carbon, oxides of nitrogen and ammonia.

11 Toxicological Information

Toxicity:

LD50/LC50 Values Relevant for Classification:

CAS: 114311-32-9 Imazamox

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>4,000 mg/kg (rat)

CAS: 81334-34-1 Imazapyr

Oral	LD50	>2,000 mg/kg (mouse)
		>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalation	LC50/4 h	>5.22 mg/l (rat)

Acute Health Effects

Inhalation: May be slightly irritating to mucous membranes of the respiratory tract.

Skin: May cause skin irritation and redness.

Eye: May cause eye irritation, redness and lachrymation.

Ingestion: May cause irritation to mucous membranes of the gastrointestinal tract.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage / Irritation: Based on classification principles, the classification criteria are not met.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity: This product does NOT contain any IARC listed chemicals.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects: No information available

Existing Conditions Aggravated by Exposure: No information available

Additional toxicological information:

The Australian Acceptable Daily Intake (ADI) for Imazamox for a human is 2.8 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 282 mg/kg/day, the level determined to show no

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effects during long term exposure for the most sensitive indicators and the most sensitive species.

The Australian Acceptable Daily Intake (ADI) for Imazapyr for a human is 0.3 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 137 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species.

(Ref: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2021).

12 Ecological Information

Ecotoxicity:**Aquatic toxicity:**

Toxic to aquatic life with long lasting effects.

GENFARM IMAZA-COMBI HERBICIDE	
EC50/48 h	>86.6 mg/L (daphnia)
EC50/72 h	>90.6 mg/L (pseudokirchnerie lla subcapitata)
LC50/96 h	>83.2 mg/L (rainbow trout)
CAS: 114311-32-9 Imazamox	
EC50	>100 mg/l (daphnia)
EC50/72 h	29.1 mg/l (pseudokirchnerie lla subcapitata)
LC50/96 h	>122 ppm (rainbow trout)
LC50	>119 mg/l (Iepomis macrochirus)
EC50/120hr	>0.037 mg/l (algae)
CAS: 81334-34-1 Imazapyr	
EC50	>100 mg/l (daphnia)
LC50	>100 mg/l (bluegill)
	>100 mg/l (rainbow trout)

Persistence and Degradability: Not readily biodegradable.

Bioaccumulative Potential:

This product does not accumulate in organisms. BCF is <1 for imazamox and imazapyr.

Mobility in Soil:

Imazapyr and imazamox are mobile in soil and can be transported deeper into soil or into larger water bodies.

Other adverse effects: No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number**ADG, IMDG, IATA**

UN3082

Proper Shipping Name**ADG**ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (Imazamox)

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IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Imazamox), MARINE POLLUTANT
IATA	Environmentally hazardous substance, liquid, n.o.s. (imazamox)
Dangerous Goods Class	
ADG Class:	9 Miscellaneous dangerous substances and articles.
Subsidiary Risk:	
Packing Group:	
ADG, IMDG, IATA	III
Marine pollutant:	Yes Symbol (fish and tree)
EMS Number:	F-A,S-F
Hazchem Code:	•3Z
Special Provisions:	274, 331, 335, 375, AU01
Transport/Additional information:	Not subject to the ADG Code when transported in Australia by Road or Rail in packages 500kg(L) or less; or IBCs (refer to SP AU01)
Limited Quantities:	5 L
Packagings & IBCs - Packing Instruction:	P001, IBC03, LP01
Packagings & IBCs - Special Packing Provisions:	PP1
Portable Tanks & Bulk Containers - Instructions:	T4
Portable Tanks & Bulk Containers - Special Provisions:	TP1, TP29

15 Regulatory Information

Australian Inventory of Industrial Chemicals:

All components are on the inventory, or in compliance with the inventory.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:

Not Scheduled.

16 Other Information

Date of Preparation or Last Revision: 23.06.2021**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Serious Eye Damage/Irritation 2: Serious eye damage/eye irritation – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Acute 2: Hazardous to the aquatic environment, short-term (Acute). Category 2

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Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term (Chronic). Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term (Chronic). Category 3

Data altered compared to the previous version:

Section 1: Details of the Manufacturer or Importer, Emergency Phone Number; Section 2: Hazardous Nature; Section 4: First Aid Measures; Section 5: Specific Hazards Arising from the Chemical; Section 8: Exposure Controls and Personal Protection; Section 11: Toxicological Information; Section 12: Ecological Information; Section 14: Transport Information; Section 15: Australian Inventory of Industrial Chemicals.

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020"

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