

# Safety Data Sheet

according to WHS Regulations

Printing date 02.02.2021

Revision: 28.01.2021

## 1 Identification

**Product Name:** GENFARM ISOXAFLUTOLE 750 WG HERBICIDE

**Other Means of Identification:** Mixture

**APVMA Number:** 65549

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

**Details of Manufacturer or Importer:**

Nutrien Ag Solutions Limited  
Level 5, Building A, 26 Talavera Road,  
Macquarie Park, NSW 2113

**Phone Number:** (02) 9889 5400

**Emergency telephone number:** 1800 44 88 92

## 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.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



health hazard

Toxic To Reproduction 2 H361 Suspected of damaging fertility or the unborn child.



environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

**Signal Word** Warning

**Hazard Statements**

H361 Suspected of damaging fertility or the unborn child.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P391 Collect spillage.

P405 Store locked up.

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: 141112-29-0	Isoxaflutole (ISO)	75%
	Toxic To Reproduction 2, H361;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	

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CAS: 1332-58-7	Kaolin	< 10%
CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )	≤ 1%
	 Carcinogenicity 1A, H350; STOT RE 1, H372	

### 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, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

**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 cause respiratory irritation.

Skin: May cause irritation, itchiness and reddening.

Eye: May cause irritation, stinging, reddening and lachrymation.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting, and diarrhoea.

### 5 Fire Fighting Measures

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

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include oxides of carbon, sulphur and nitrogen and hydrogen fluoride.

Product is not flammable, however it may form explosive dust clouds in air.

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 or water courses.

HAZCHEM: 2Z

**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 protective equipment, keep unprotected persons away.

**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:**

Use vacuum equipment with HEPA filters or wet sweeping/dust suppressant if sweeping is required. Collect in suitable, closed containers for subsequent 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 dust or mist.

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 in original container, tightly closed when not in use. Protect from extreme temperatures and direct sunlight.

### 8 Exposure Controls and Personal Protection

**Exposure Standards:****CAS: 1332-58-7 Kaolin**NES TWA: 10 mg/m<sup>3</sup>**CAS: 14808-60-7 Quartz (SiO<sub>2</sub>)**NES TWA: 0.1 mg/m<sup>3</sup>  
respirable dust**Engineering Controls:**

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

**Respiratory Protection:**

Where an inhalation risk exists, wear a Class P1 (particulate) respirator. At high dust levels, wear a powered air purifying respirator (PAPR) with Class P3 (Particulate) filter or an air-line respirator or a full-face Class P3 (particulate) respirator. See Australian/New Zealand Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Elbow-length chemical resistant PVC gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

Occupational protective clothing, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat. See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Eye and face shield or goggles for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

### 9 Physical and Chemical Properties

**Appearance:****Form:**

Granulate

**Colour:**

Brown

**Odour:**

Characteristic

**Odour Threshold:**

No information available

**pH-Value:**

4.0-6.0 (1% solution)

**Melting point/freezing point:**

No information available

**Initial Boiling Point/Boiling Range:**

No information available

**Flash Point:**

Not applicable

**Flammability:**

Product is not flammable

**Auto-ignition Temperature:**

Product is not self-igniting

**Decomposition Temperature:**

No information available

**Explosion Limits:****Lower:**

No information available

**Upper:**

No information available

**Vapour Pressure:**

No information available

**Bulk Density:**555-625 kg/m<sup>3</sup>**Vapour Density:**

No information available

**Evaporation Rate:**

No information available

**Solubility in Water:**

Dispersible

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**Partition Coefficient (n-octanol/water):** No information available

### 10 Stability and Reactivity

**Possibility of Hazardous Reactions:** No dangerous reactions known under conditions of normal use.**Chemical Stability:** Stable at ambient temperature and under normal conditions of storage and use.**Conditions to Avoid:** Extreme temperatures and direct sunlight. Avoid generating dust.**Incompatible Materials:** No further relevant information available.**Hazardous Decomposition Products:** Oxides of carbon, sulphur and nitrogen and hydrogen fluoride.

### 11 Toxicological Information

**Toxicity:****LD50/LC50 Values Relevant for Classification:**

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalation	LC50/4 h	>5.26 mg/l (rat)

**Acute Health Effects****Inhalation:** May cause respiratory irritation.**Skin:** May cause irritation, itchiness and reddening.**Eye:** May cause irritation, stinging, reddening and watering.**Ingestion:** May cause gastrointestinal irritation, nausea, vomiting, and diarrhoea.**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:**

Silica dust, crystalline, in the form of quartz or cristobalite, is classified by IARC as Group 1 - Carcinogenic to humans.

**Reproductive Toxicity:** Suspected of damaging fertility or the unborn child.**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 isoxaflutole for a human is 0.02 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 2 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', 2020).

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## 12 Ecological Information

**Ecotoxicity:** This product has low toxicity to birds and earthworms.

**Aquatic toxicity:**

Very Toxic to aquatic life with long lasting effects.

**CAS: 141112-29-0 Isoxaflutole (ISO)**

EC50/14 days	0.003 mg/L (duckweed)
EC50/48 h	1.5 mg/L (daphnia) 5 mg/L (daphnia)
EC50/72 h	10.5 mg/L (algae)
LC50/69 h	>65 mg/L (rainbow trout)
LC50/96 h	<1.7 mg/L (rainbow trout)

**Persistence and Degradability:** Easily biodegradable.

**Bioaccumulative Potential:**

Bioaccumulation is not expected to occur. Isoxaflutole has a bioconcentration factor of 11.

**Mobility in Soil:**

Isoxaflutole has a low potential for groundwater leaching, but is potentially mobile in soil after heavy rainfall.

**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

<b>UN Number</b>	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).
<b>ADG</b>	Not regulated
<b>IMDG, IATA</b>	UN3077
<b>Proper Shipping Name</b>	
<b>ADG</b>	Not regulated
<b>IMDG</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Isoxaflutole (ISO)), MARINE POLLUTANT
<b>IATA</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Isoxaflutole (ISO))
<b>Dangerous Goods Class</b>	
<b>ADG Class:</b>	Not regulated
<b>Subsidiary Risk:</b>	
<b>IMDG Class:</b>	9 Miscellaneous dangerous substances and articles.
<b>Packing Group:</b>	
<b>ADG</b>	Not regulated
<b>IMDG, IATA</b>	III

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<b>Marine pollutant:</b>	Yes Symbol (fish and tree)
<b>EMS Number:</b>	F-A,S-F
<b>Hazchem Code:</b>	2Z
<b>Special Provisions:</b>	274, 331, 335, 375, AU01
<b>Limited Quantities:</b>	5 kg
<b>Packagings &amp; IBCs - Packing Instruction:</b>	P002, IBC08, LP02
<b>Packagings &amp; IBCs - Special Packing Provisions:</b>	PP12, B3
<b>Portable Tanks &amp; Bulk Containers - Instructions:</b>	T1, BK2, BK3
<b>Portable Tanks &amp; Bulk Containers - Special Provisions:</b>	TP33

### 15 Regulatory Information

#### Australian Inventory of Industrial Chemicals:

All ingredients are listed.

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

Poisons Schedule: 5

### 16 Other Information

**Date of Preparation or Last Revision:** 28.01.2021**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.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)

Carcinogenicity 1A: Carcinogenicity – Category 1A

Toxic To Reproduction 2: Reproductive toxicity – Category 2

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

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

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

#### Data altered compared to the previous version:

Section 1: Details of Manufacturer or Importer, Emergency Phone Number, Section 4: Symptoms caused by exposure, Section 5: Specific Hazards Arising from the Chemical, Section 6: Personal Precautions, Protective Equipment and Emergency Procedures, Section 11: Acute toxicity information, Additional Information, Section 14: Special provision AU01.

#### 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"

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Nutrien Ag Solutions Limited makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty

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Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.