

# Safety Data Sheet

according to WHS Regulations

Printing date 02.08.2021

Revision: 25.08.2020

## 1 Identification

**Product Name: GENFARM PARAQUAT 250 HERBICIDE**

**Other Means of Identification:** Mixture

**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 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.

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



Skull and crossbones

Acute Toxicity (Oral) 3                      H301 Toxic if swallowed.

Acute Toxicity (Dermal) 3                H311 Toxic in contact with skin.

Acute Toxicity (Inhalation) 1            H330 Fatal if inhaled.



Health hazard

STOT RE 1                                      H372 Causes damage to organs through prolonged or repeated exposure.



Environment

Aquatic Acute 1                              H400 Very toxic to aquatic life.

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



Skin Corrosion/Irritation 2              H315 Causes skin irritation.

Serious Eye Damage/Irritation 2A    H319 Causes serious eye irritation.

STOT SE 3                                      H335 May cause respiratory irritation.

**Signal Word** Danger

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**Hazard Statements**

H301 Toxic if swallowed.  
 H311 Toxic in contact with skin.  
 H330 Fatal if inhaled.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 H372 Causes damage to organs through prolonged or repeated exposure.  
 H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264 Wash thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
 P284 [In case of inadequate ventilation] wear respiratory protection.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 P330 Rinse mouth.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P314 Get medical advice/attention if you feel unwell.  
 P320 Specific treatment is urgent (see on this label).  
 P361+P364 Take off immediately all contaminated clothing and wash it before reuse.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P391 Collect spillage.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 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.

<b>Hazardous Components:</b>		
CAS: 1910-42-5	Paraquat (present as paraquat dichloride) ⚠ Acute Toxicity (Oral) 3, H301; Acute Toxicity (Dermal) 3, H311; Acute Toxicity (Inhalation) 2, H330; ⚠ STOT RE 1, H372; ⚠ Corrosive To Metals 1, H290; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Corrosion/Irritation 2, H315; Serious Eye Damage/Irritation 2, H319; STOT SE 3, H335	25%
CAS: 110-86-1	Pyridine ⚠ Flammable Liquids 2, H225; ⚠ Acute Toxicity (Oral) 4, H302; Acute Toxicity (Dermal) 4, H312; Acute Toxicity (Inhalation) 4, H332	<10%

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## 4 First Aid Measures

**General Information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

**Inhalation:**

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

**Skin Contact:**

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

**Eye Contact:**

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. 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: Fatal if inhaled. May cause respiratory irritation, headaches, nausea, nose bleeding and a sore throat. May cause pulmonary oedema, which can be fatal.

Skin Contact: Harmful in contact with skin. Causes skin irritation, itchiness and reddening. May cause white spots on fingernails, cracked nails and possible loss of fingernails.

Eye Contact: Causes serious eye irritation, stinging, reddening and watering.

Ingestion: Harmful if swallowed. May cause vomiting, diarrhoea, soreness and inflammation of mouth and throat, kidney failure and liver damage. May cause death by multiple organ failure, circulatory collapse and proliferating fibrosis of the lung.

## 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Water fog or fine spray

**Specific Hazards Arising from the Chemical:**

During heating or in case of fire oxides of carbon, nitrogen, nitrogen oxides, other nitrogen compounds, hydrogen cyanide, hydrogen chloride, other chlorine compounds and smoke.

Product is not flammable.

Prevent run-off from fire fighting entering drains or water courses.

**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. Ensure adequate ventilation.

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

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**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. If absorbent material is not available or spill is too large, create a dike to stop spill from spreading. 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. 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 protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**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 direct sunlight. Keep away from strong oxidising agents. Store locked up.

## 8 Exposure Controls and Personal Protection

**Exposure Standards:****CAS: 110-86-1 Pyridine**NES | TWA: 16 mg/m<sup>3</sup>, 5 ppm**Engineering Controls:**

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

**Respiratory Protection:**

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

PVC or 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.

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:**

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:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Dark blue
<b>Odour:</b>	Obnoxious odour

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<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	5.0- 6.5 (1% solution)
<b>Melting point/freezing point:</b>	~0 °C
<b>Initial Boiling Point/Boiling Range:</b>	~100 °C
<b>Flash Point:</b>	Not applicable
<b>Flammability:</b>	Product is not flammable
<b>Auto-ignition Temperature:</b>	Not applicable
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	No information available
<b>Upper:</b>	No information available
<b>Vapour Pressure at 20 °C:</b>	2.37 kPa (water vapour pressure)
<b>Relative Density:</b>	1.17
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Completely soluble
<b>Partition Coefficient (n-octanol/water):</b>	No information available
<b>Viscosity:</b>	No information available

## 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:** Direct sunlight.

**Incompatible Materials:** Strong oxidising agents.

**Hazardous Decomposition Products:**

Oxides of carbon, nitrogen, nitrogen oxides, other nitrogen compounds, hydrogen cyanide, hydrogen chloride, other chlorine compounds and smoke.

## 11 Toxicological Information

**Toxicity:**

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

**CAS: 1910-42-5 Paraquat (present as paraquat dichloride)**

Oral	LD50	283-344 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalation	L50/4 h	0.6-1.4 mg/m <sup>3</sup> (rat)

**CAS: 110-86-1 Pyridine**

Oral	LD50	891 mg/kg (rat)
Dermal	LD50	1,121 mg/kg (rabbit)

**Acute Health Effects**

**Inhalation:**

Fatal if inhaled. May cause respiratory irritation, headaches, nausea, nose bleeding and a sore throat. May cause pulmonary oedema, which can be fatal.

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**Skin:**

Harmful in contact with skin. Causes skin irritation, itchiness and reddening. May cause white spots on fingernails, cracked nails and possible loss of fingernails.

**Eye:** Causes serious eye irritation, stinging, reddening and watering.

**Ingestion:**

Harmful if swallowed. May cause vomiting, diarrhoea, soreness and inflammation of mouth and throat, kidney failure and liver damage. May cause death by multiple organ failure, circulatory collapse and proliferating fibrosis of the lung.

**Skin Corrosion / Irritation:** Causes skin irritation.

**Serious Eye Damage / Irritation:** Causes serious eye irritation.

**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:** Pyridine is classified by IARC as Group 2B - Possibly carcinogenic to humans.

**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:**

Causes damage to organs through prolonged or repeated exposure if swallowed.

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

**Chronic Health Effects:**

Prolonged exposure or delayed treatment may cause permanent eye damage. May cause damage to the kidneys and liver.

**Existing Conditions Aggravated by Exposure:** No information available

**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for paraquat for a human is 0.004 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 0.45 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', August 2020).

## 12 Ecological Information

**Ecotoxicity:**

Paraquat dichloride:

LD50 262-380 mg/kg (hen)

LD50 981 mg/kg (bobwhite quail)

LD50 970 mg/kg (japanese quail)

LD50 4048 mg/kg (mallard duck)

**Aquatic toxicity:**

**CAS: 1910-42-5 Paraquat (present as paraquat dichloride)**

EC50/48 h 6.1 mg/l (daphnia)

EC50/72 h 0.00103 mg/l (diatom)

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	0.6 mg/l (pseudokirchnerie lla subcapitata)
LC50/96 h	55 mg/l (rainbow trout)

Very toxic to aquatic life with long lasting effects.

**Persistence and Degradability:** No information available**Bioaccumulative Potential:** Bioaccumulation is not expected to occur.**Mobility in Soil:** Paraquat strongly adsorbs to soil particles, and so has low mobility in soils.**Other adverse effects:** No 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>	
<b>ADG, IMDG, IATA</b>	UN3016
<b>Proper Shipping Name</b>	
<b>ADG</b>	BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC, ENVIRONMENTALLY HAZARDOUS
<b>IMDG</b>	BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC, (Paraquat (present as paraquat dichloride)), MARINE POLLUTANT
<b>IATA</b>	BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC
<b>Dangerous Goods Class</b>	
<b>ADG Class:</b>	6.1 Toxic substances.
<b>Subsidiary Risk:</b>	
<b>Packing Group:</b>	
<b>ADG, IMDG, IATA</b>	III
<b>Marine pollutant:</b>	Yes Symbol (fish and tree)
<b>EMS Number:</b>	F-A,S-A
<b>Hazchem Code:</b>	2X
<b>Special Provisions:</b>	61, 223, 274
<b>Limited Quantities:</b>	5L
<b>Packagings &amp; IBCs - Packing Instruction:</b>	P001, IBC03, LP01
<b>Packagings &amp; IBCs - Special Packing Provisions:</b>	No information available
<b>Portable Tanks &amp; Bulk Containers - Instructions:</b>	T7
<b>Portable Tanks &amp; Bulk Containers - Special Provisions:</b>	TP2, TP28

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## 15 Regulatory Information

### Australian Inventory of Industrial Chemicals:

CAS: 1910-42-5 Paraquat (present as paraquat dichloride)

CAS: 110-86-1 Pyridine

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

Poisons Schedule: 7

## 16 Other Information

**Date of Preparation or Last Revision:** 25.08.2020**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)

Flammable Liquids 2: Flammable liquids – Category 2

Corrosive To Metals 1: Corrosive to metals – Category 1

Acute Toxicity (Oral) 3: Acute toxicity - oral – Category 3

Acute Toxicity (Oral) 4: Acute toxicity - oral – Category 4

Acute Toxicity (Inhalation) 1: Acute toxicity - inhalation – Category 1

Acute Toxicity (Inhalation) 2: Acute toxicity - inhalation – Category 2

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

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

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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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: Inhalation, Eye Contact, Symptoms, Section 5: Specific Hazards Arising from the Chemical, Section 7: Conditions for Safe Storage, Section 9: Viscosity, Section 10: Hazardous Decomposition Products, Section 11: Acute Health Effects, Additional toxicological information

### 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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