

**Safety Data Sheet**  
according to WHS Regulations

Printing date 02.02.2023

Revision date: 01.02.2023

**1 Identification**

**Product Name: Proforce Cortex Duo Industrial Herbicide**

**Other Means of Identification:** Mixture

**APVMA Approval Number:** 91838

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

**Details of Manufacturer or Importer:**

Indigo Specialty Products Pty Ltd  
3/49 Donaldson Road,  
ROCKLEA QLD 4106

**Phone Number:** 0402 735 887

**Emergency telephone number:** National Poisons Information Centre: 13 11 26

**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), IATA and IMDG/IMSBC.



Skin Corrosion/Irritation 2

H315 Causes skin irritation.

Serious eye damage/irritation – Category 2A

H319 Causes serious eye irritation.

Aquatic Acute 3

H402 Harmful to aquatic life.

Aquatic Chronic 3

H412 Harmful to aquatic life with long lasting effects.

**Signal Word** Warning

**Hazard Statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear eye protection / face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P321 Specific treatment (see on this label).

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P337+P313 If eye irritation persists: Get medical advice/attention.

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

**3 Composition and Information on Ingredients**

**Chemical Characterization: Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

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Hazardous Components:		
CAS: 112-05-0	Nonanoic acid ⚠ Skin Corrosion/Irritation 2, H315; Serious eye damage/irritation – Category 2A, H319; Aquatic Chronic 3, H412	50-60%
CAS: 42874-03-3	Oxyfluorfen ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1-5%

## 4 First Aid Measures

**Inhalation:** If inhaled, remove to fresh air. 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 irritation develops and persists.

**Eye Contact:**

In case of eye contact, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if irritation persists.

**Ingestion:**

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give 1-2 glasses of water to drink in small sips. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

**Symptoms Caused by Exposure:**

Inhalation: May cause respiratory irritation.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: May cause chemical irritation to the mouth, nose, throat and oesophagus. May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

## 5 Fire Fighting Measures

**Suitable Extinguishing Media:**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use a solid water stream.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include oxides of carbon, oxides of nitrogen and unidentified, potentially hazardous chlorine and fluorine derivatives.

Product is not flammable.

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

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 protective equipment. Keep unprotected persons away. Take care as spill may cause a slip hazard. Ensure adequate ventilation.

**Environmental Precautions:**

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

Inform respective authorities in case of seepage into water course or sewage system.

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

Wipe up small spills with a paper towel or dry rag. Clean up all spills immediately, since spilled materials, even in small quantities, may present a slip hazard. Absorb large spills with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Decontaminate spill area with water and detergents.

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### 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 mists.

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 container tightly closed when not in use. Protect from heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents.

### 8 Exposure Controls and Personal Protection

#### Exposure Standards:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Engineering Controls:** Natural ventilation should be adequate under normal use conditions.

#### Respiratory Protection:

Use an approved mixed type organic vapour / particulate respirator (types A and P) 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:

Protective 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:

Safety glasses with top and side shields or goggles. See Australian/New Zealand Standards AS/NZS 1336 and 1337 for more information.

### 9 Physical and Chemical Properties

#### Appearance:

<b>Form:</b>	Liquid
<b>Colour:</b>	Clear yellow
<b>Odour:</b>	No information available
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	3.5 - 4.5 (1%)
<b>Melting point/freezing point:</b>	3.5 °C
<b>Initial Boiling Point/Boiling Range:</b>	No information available
<b>Flash Point:</b>	Not applicable
<b>Flammability:</b>	Not applicable
<b>Auto-ignition Temperature:</b>	No information available
<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:</b>	No information available

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<b>Relative Density:</b>	0.928
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Forms an emulsion in water
<b>Partition Coefficient (n-octanol/water):</b>	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:** Heat, sparks, open flames and other sources of ignition.

**Incompatible Materials:** Strong oxidising agents.

**Hazardous Decomposition Products:**

Oxides of carbon, oxides of nitrogen and unidentified, potentially hazardous chlorine and fluorine derivatives.

## 11 Toxicological Information

**Toxicity:**

**LD50/LC50 Values:**

**CAS: 112-05-0 Nonanoic acid**

Oral	LD50	>2,000 mg/kg (Rattus norvegicus (rat))
	LD50	>2,000 mg/kg (Rattus norvegicus (rat))
Inhalation	LC50	>0.46 mg/l (Rattus norvegicus (rat))

**CAS: 42874-03-3 Oxyfluorfen**

Oral	LD50	>5,000 mg/kg (Rattus norvegicus (rat))
Dermal	LD50	5,000 mg/kg (Rattus norvegicus (rat))
Inhalation	LC50/4 h	>3.71 mg/l (Rattus norvegicus (rat))

**Acute Health Effects**

**Inhalation:** May cause respiratory irritation.

**Skin:** Causes skin irritation.

**Eye:** Causes serious eye irritation.

**Ingestion:**

May cause chemical irritation to the mouth, nose, throat and oesophagus. May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

**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:**

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

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.

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**Chronic Health Effects:** No information available**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for oxyfluorfen for a human is 0.025 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 2.5 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', 2022).

## 12 Ecological Information

**Ecotoxicity:****Aquatic toxicity:**

Harmful to aquatic life with long lasting effects.

**CAS: 112-05-0 Nonanoic acid**

EC50/48 h 96 mg/l (Daphnia magna (water flea))

EC50/72 h 60 mg/l (Pseudokirchneriella subcapitata (algae))

LC50/96 h 104 mg/l (Pimephales promelas (fathead minnow))

**CAS: 42874-03-3 Oxyfluorfen**

EC50/48 h 0.5 mg/l (Daphnia magna (water flea))

LC50/96 h 0.15 mg/l (Pimephales promelas (fathead minnow))

**Persistence and Degradability:** No data available on finished product.**Bioaccumulative Potential:** No data available on finished product.**Mobility in Soil:** No data available on finished product.**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** Not regulated**Proper Shipping Name** Not regulated**Dangerous Goods Class** Not regulated**Packing Group:** Not regulated

## 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:**

Poisons Schedule: 5

**Australian Pesticides and Veterinary Medicines Authority:**

This product is registered with the Australian Pesticides and Veterinary Medicines Authority. APVMA approval number 91838.

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## 16 Other Information

**Date of Preparation or Last Revision:** 01.02.2023**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)**Abbreviations and acronyms:**

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)

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

Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A

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

Aquatic Acute 3: Hazardous to the aquatic environment, short-term (Acute). Category 3

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

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

**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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