




**Section 1: Identification: Product identifier and chemical identity**

<b>Product Identifier:</b>	<b>OFFEND 240</b>
<b>Active Constituent:</b>	240 g/L Oxyfluorfen
<b>Solvents:</b>	100 g/L N-Methyl Pyrrolidone and 608 g/L Liquid Hydrocarbons
<b>Other Means of Identification:</b>	Agricultural Herbicide. Grow Choice product code number: 240 20 AVPMA registered number: 67885/57027
<b>Recommended Use:</b>	For selective weed control of broadleaf weeds and some grasses as specified in the Directions for Use table.
<b>Details of manufacturer or importer:</b>	<b>Grow Choice Pty Ltd</b> ABN 36 161 264 884
<b>Address:</b>	<b>113 Fitzroy Street</b> <b>TAMWORTH NSW 2340</b> <b>AUSTRALIA</b>
<b>Website:</b>	<b>www.growchoice.com.au</b>
<b>Phone Number &amp; Email:</b>	<b>(02) 6766 3979 - admin@growchoice.com.au</b>
<b>Emergency Phone Number:</b>	<b>In Case Of Emergency Dial 000</b>
<b>Poisons Information Centre:</b>	<b>Phone: 13 11 26 and speak to a Poisons Information Specialist.</b> <b>Fax: +61 2 9845 3597 <a href="http://www.chw.edu.au/poisons/contact.htm">http://www.chw.edu.au/poisons/contact.htm</a></b>

**Section 2: Hazards identification (cont. page 2)**

Classified as <b>HAZARDOUS</b> in accordance with the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004) 3 <sup>rd</sup> Edition and the Globally Harmonized System of Classification and Labelling of Chemicals (the GHS).		
Considered non-dangerous for road and rail transport by the Australian Code for the Transport of Dangerous Goods Road and Rail (August 2014 edition)		
Considered <b>DANGEROUS</b> for transport by sea and air in accordance with the IMDG Code 37-14 (refer Section 14)		
<b>Summary of hazardous identifications:</b>	IMDG UN number: <b>3082</b> Poisons Schedule number: <b>S5</b>	
<b>Classification of the hazardous chemical:</b>	Category: 1 - Aspiration hazard Category 1 – Hazardous to the aquatic environment Category 1 - Hazardous to the aquatic environment, long term hazard Category 1 – Acute Hazard Category 1B – Reproductive toxicity Category 2 – Skin irritation Category 2A – Eye irritation Category 3: - Specific target organ toxicity	
<b>GHS Symbol:</b>	Exclamation mark	Environment
		
		Health
		
<b>Signal code and word:</b>	<b>DANGER</b>	
<b>Precautionary Statements (General):</b>	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.	
<b>Hazard Statements:</b>	H304: May be fatal if swallowed and enters airways H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation H360D: May damage the unborn child H400: Very toxic to aquatic life H410: Very toxic to aquatic life with long lasting effect	

<b>Prevention Statements:</b>	<p>P273: Avoid release to the environment.  P391: Collect spillage.  P264: Wash thoroughly after handling.  P280: Wear eye protection/face protection  P280: Wear protective gloves.  P302 + P352: IF ON SKIN: Wash with plenty of soap and water.  P321: Specific treatment (refer to all information within this SDS  P332 + P313: If skin irritation occurs: Get medical advice/attention.  P362: Take off contaminated clothing and wash before reuse.  P261: Avoid breathing dust/fume/gas/mist/ vapours/spray.  P271: Use only outdoors or in a well-ventilated area.</p>
<b>Response Statements:</b>	<p>P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  P337 + P313: If eye irritation persists: Get medical advice/attention.  P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P312: Call a POISON CENTER or doctor/physician if you feel unwell.  P301 + P310: <b>IF SWALLOWED:</b> Immediately call a POISON CENTER or doctor/physician.  P331: <b>Do NOT induce vomiting.</b></p>
<b>Storage:</b>	Refer to Section 7
<b>Disposal:</b>	P501: <b>Dispose of contents and container in accordance with local, regional and national regulations.</b>
<b>Other Information:</b>	Poisons Schedule S5

### Section 3: Composition and information on ingredients

Chemical ingredients: CAS number and other unique identifiers: Concentration of ingredients		
Component	CAS No	Proportion
Oxyfluorfen	42874-03-3	240 g/L
N-methyl pyrrolidone	872-50-4	100 g/L
Liquid Hydrocarbon	64742-94-5	608 g/L

### Section 4: First aid measures

<b>In Case Of Emergency Dial 000 and/or Poisons Information Centre: Phone: 13 11 26 and speak to a Poisons Information Specialist. Take this SDS and or DFU/Label with you or when calling the Poisons Information Centre.</b>	
<b>General Advice:</b>	Those who offer First Aid should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.
<b>Swallow:</b>	If swallowed, DO NOT induce vomiting. Rinse mouth out with water if patient is conscious. Seek urgent medical attention.
<b>Eye:</b>	If product gets in eyes, remove contact lenses if wearing and wash it out immediately with water for several minutes. Seek medical attention.
<b>Skin:</b>	Remove contaminated clothing and wash affected areas thoroughly with soap and water. Seek medical attention if concerned.
<b>Inhaled:</b>	Move affected person to fresh air and keep at rest until recovered. If inhaled remove to fresh air and keep at rest. Obtain medical advice if at all worried. If not breathing give artificial respiration and get medical attention as soon as possible.

## Section 5: Fire fighting measures

<b>Suitable Extinguishing Equipment:</b>	Water fog, carbon dioxide, or dry chemical.
<b>Specific hazards from arising from the chemical:</b>	If involved in a fire, it will emit carbon monoxide, phosgene, hydrogen chloride and possibly hydrogen fluoride.
<b>Decomposition temperature:</b>	Not known, stable at 100°C
<b>Special Protective Equipment and Precautions for Fire Fighters:</b>	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES. Breathable air apparatus must be worn when fighting a fire in which this product is involved.

## Section 6: Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	In case of spillage it is important to take all steps necessary to: Instruct and ensure all bystanders to keep away from and upwind of spill/leak; Avoid eye and skin contact; Do not breathe dust; Ensure adequate ventilation; Avoid contamination of waterways. Refer to Section 8 for Personal Protection Equipment (PPE).
<b>Environmental precautions:</b>	Avoid contamination of waterways.
<b>Methods for containment and cleaning up:</b>	Reposition any leaking containers so as to minimise leakage. Dam and absorb spill with an absorbent material (e.g. sand or soil). Shovel the absorbed spill into drums. Collect in a suitable, closed container to dispose and clean the spilled area with water.

## Section 7: Handling and storage

<b>Precautions for safe handling:</b>	Safe work practices are recommended. Avoid contact with eyes and skin. When opening the container and preparing spray wear appropriate PPE (refer Section 8). Do not spray under high wind conditions. <b>Hygiene measures:</b> When using products, do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly with soap and water after use and before eating, drinking, smoking/using tobacco, chewing gum, using the toilet or applying cosmetics. After each day's use, wash gloves, face shield or goggles and contaminated clothing. Avoid contact with eyes and skin.
<b>Conditions for safe storage, including incompatibilities:</b>	Keep out of reach of children, unauthorised persons and animals. Store in tightly sealed original containers in a dry secure place away from fertilizers, feed and food. Store out of direct sunlight and extreme temperature. Always read the label and any attached leaflet before use.

## Section 8: Exposure controls and personal protection (cont. page 4)

<b>Control parameters – exposure standards, biological monitoring:</b>	The manufacturer of the solvent has recommended an occupational exposure limit exposure limit values of 100 mg/m <sup>3</sup> ; 15ppm TWA, as total hydrocarbon. Safe Work Australia has set the following exposure standard for N-methyl pyrrolidone: TLV (TWA) 103 mg/m <sup>3</sup> , STEL 309 mg/m <sup>3</sup> . SK 'SK' notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur. Handle in well ventilated areas, generally natural ventilation is adequate.
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<b>Appropriate engineering controls:</b>	Control process conditions to avoid contact. Use in a well-ventilated area only. Use local exhaust ventilation to keep exposure levels below the exposure limits above. Keep stored in original container in a cool, well ventilated area, keeping the lid closed at all-times whilst in storage.
<b>Personal protective equipment (PPE):</b>	<p>When opening the container and preparing the spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC chemical resistant gloves and face shield or goggles.</p> <p>When using the prepared spray, cotton overalls buttoned to the neck and wrist and a washable hat and, optional once chemical is prepared for use, elbow length PVC chemical resistant gloves and face shield or goggles, if protected from spray drift/contamination.</p> <p><b>Face and Eye Protection:</b> Face shield or goggles.  <b>Clothing:</b> Cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat.  <b>Gloves:</b> Elbow-length chemical resistant PVC gloves.  <b>Respiratory:</b> If airborne concentrations are likely to exceed the exposure standards above or if exposed to dust, an AS/NZS 1715/1716 approved respirator should be worn.</p> <p>Recommended to use Australian and New Zealand Standard PPE:  Overalls AS 3765, Clothing for protection against Hazardous chemicals  Gloves: AS/NZS 2161, Industrial safety gloves and mittens (not electrical and medical gloves)  Goggles and face shield AS/NZS 1337, Eye protectors for industrial applications.  Footwear AS/NZS 2210, Occupational protective footwear  Respirators AS/NZS 1715 Selection, Use and Maintenance of Respiratory Protective Devices  AS/NZS 1716, Respiratory Protective Devices</p>
<b>Requirements concerning special training:</b>	Check State and/or Territory regulations that require people who use pesticides in their job or business to have adequate training in the application of the materials.

## Section 9: Physical and chemical properties

<b>Appearance:</b>	Amber liquid	<b>Specific gravity:</b>	1.08 @ 20°C
<b>Odour:</b>	Aromatic solvent odour	<b>pH:</b>	9-10 (1% solution)
<b>Decomposition temperature:</b>	Not known, stable at 100°C	<b>Flash point:</b>	100°C
<b>Vapour Pressure:</b>	0.0267 mPa @ 25°C for oxyfluorfen	<b>Solubility in water:</b>	Forms an emulsion in water.
<b>Flammability:</b>	Combustible liquid C1. (does not sustain combustion) AS1940. Combustible Liquid (GHS).	<b>Partition coefficient:</b>	Kow Log P is 4.47 for oxyfluorfen n-octanol/water

## Section 10: Stability and reactivity

<b>Chemical Stability:</b>	Product is considered stable under normal conditions and storage.
<b>Conditions to avoid:</b>	Keep away from strong oxidising agents as product may react violently.
<b>Incompatible materials and possible hazardous reactions:</b>	Strong oxidising agents, acids and bases.
<b>Hazardous Decomposition Products:</b>	Hazardous polymerization is not possible.

## Section 11: Toxicological information

<b>Toxicology information:</b>	No harmful effects are expected if the precautions on the label and this MSDS are followed.
<b>Acute toxicity - Oral:</b>	LD <sub>50</sub> (rat) >5,000 mg/kg for oxyfluorfen
<b>Acute Toxicity - Dermal</b>	LD <sub>50</sub> (rabbit) >10,000 mg/kg for oxyfluorfen
<b>Acute Toxicity - Inhalation</b>	LC <sub>50</sub> (rat) (4hr) >5.4 mg/l
<b>Ingestion:</b>	The concentrate is of low toxicity if swallowed. If aspirated into the lung, e.g. from vomiting, the presence of solvent may result in chemical pneumonitis or other lung damage.
<b>Inhalation:</b>	High vapour concentrations of the solvent while handling the concentrate are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, and may have other central nervous system effects.
<b>Skin:</b>	May irritate the skin. Prolonged contact with the concentrate can cause defatting of the skin and may result in dermatitis.
<b>Eye:</b>	The concentrate may cause irritation of the eyes.
<b>Skin Sensitisation:</b>	Product is not a skin sensitiser.
<b>Carcinogenicity:</b>	The weight of the evidence is that oxyfluorfen is not carcinogenic.
<b>Reproductive toxicity:</b>	Evidence from animal studies suggests the potential for developmental toxicity on repeated or prolonged exposure. (N-methyl pyrrolidone).
<b>Chronic effects:</b>	Liver and kidney damage has been noted in laboratory animals that have been fed excessive doses of oxyfluorfen.
<b>Serious eye damage/irritation:</b>	Mild eye irritant.
<b>Skin corrosion/irritation:</b>	Mild skin irritant.
<b>Data limitations:</b>	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 NOEL 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: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', 30 June 2014).

## Section 12: Ecological information

<b>Known Harmful Effects on the Environment:</b>	<p>The product is a marine pollutant for sea transport.</p> <p>Do not spray in high winds. Do not contaminate dams, waterways or sewers with this product or the containers which stored this product.</p> <p>Spray drift should be avoided, read the label for more information.</p> <p>The following is data for the active ingredient, oxyfluorfen. LC50 (96hr) for rainbow trout is 0.25 mg/l.</p> <p>LC50 (48hr) for daphnia magna is 0.72 mg/l for oxyfluorfen.</p> <p>EC50 (72hr) for Pseudokirchneriella subcapitata &gt;2.0 mg/l.</p> <p>Birds: Not toxic to birds. LD50 for bobwhite quail is &gt;947 mg/kg</p> <p>Bees: Not toxic to bees. LD50 &gt;25 µg/bee.</p>
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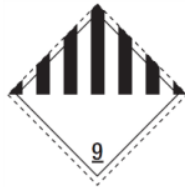
## Section 13: Disposal considerations (cont. page 6)

<b>Product Disposal:</b>	On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).
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<b>Container Disposal:</b>	Do not use this container for any other purpose. Triple rinse containers; add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. drumMUSTER is the national program for the collection and recycling of empty, cleaned, non-returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.
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## Section 14: Transport information

<b>General Transport Information:</b>	It is considered good practice not to transport agricultural chemical products with food, food related materials and animal feed products.
<b>Land:</b>	Considered non-dangerous for road and rail transport by the Australian Code for the Transport of Dangerous Goods Road and Rail (August 2014 edition).
<b>Sea and Air:</b>	Considered <b>DANGEROUS</b> for transport by sea and air in accordance with the IMDG Code 37-14.

<b>Substance: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains oxyfluorfen) Marine Pollutant</b>		
(1) UN No: <b>3082</b>	(2) PSN: <b>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.</b>	
(3) Class: <b>9</b>	(4) Subsidiary Risks: -	(5) Packing Group: <b>III</b>
(6) Special Provisions: <b>274 335 969</b>	(7a) <b>Limited Quantities: 5 L</b>	(7b) <b>Excepted Quantities: E1</b>
Flashpoint:	(15) Emergency Schedule: <b>F-A, S-F</b>	
	Instructions	Provisions
Packing	(8) <b>P001 LP01</b>	(9) <b>PP1</b>
IBCs	(10) <b>IBC03</b>	(11) -
Tanks	(13) <b>T4</b>	(14) <b>TP2 TP29</b>
(16a) Stowage and Handling		(16b) Segregation
<b>Category A</b>	-	
(17) Properties and Observations		
Labels/Marks/Signs:  For further information on the use of labels, marks and signs, see <b>part 5</b> of the IMDG Code.		

## Section 15: Regulatory information

<b>Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Schedule 5</b>	
Registration status: <b>Registered</b>	APVMA approval: <b>67885/57027</b>

## Section 16: Any other relevant information

**Date of preparation or last revision:** This Safety Data Sheet (SDS) was completed 3 January 2022 and replaces SDS dated 16 January 2017.

**Acronyms:**

AVPMA: Australian Pesticides and Veterinary Medicines Authority.

GHS: Globally Harmonised system of Classification and Labelling of chemicals

HSIS: Hazardous Substances Information System

NOHSC: National Occupational Health and Safety Commission

CAS No.: unique numerical identifier assigned by Chemical Abstracts Service (division of the American Chemical Society)

TWA: Exposure Standard - time weighted average

STEL: Exposure standard - short term exposure limit.

mg/m<sup>3</sup>: Milligrams of substance per cubic metre of air at 25°C and one atmosphere pressure. The value is exact.

AS/NZS: Australian Standards and New Zealand Standards for Personal protective equipment

ADI: Acceptable Daily Intakes For Agricultural And Veterinary Chemicals

ADG: Australian Dangerous Goods

IMDG: International Maritime Code of Dangerous Goods

IATA: International Air Transport Association

**END OF SDS**

**Source of Data:** The information provided in this SDS is sourced from Grow Choice studies which have been conducted according to Regulatory requirements including OECD and CIPAC Guidelines and EC Directives. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

**Note: This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions**

**CONTACT POINT:** Grow Choice Pty Ltd  
(02) 6766 3979

**24 HOURS EMERGENCY CONTACT: 1800 033 111**

This Material Safety Data Sheet 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.

**DISCLAIMER**

This product complies with the specifications in its statutory registration. Implied terms and warranties are excluded. Grow Choice's liability for breach of the express or any non-excludable implied warranty is limited to product replacement or purchase price refund. The purchaser must determine suitability for intended purpose and take all proper precautions in the handling, storage and use of the product including those on the label and/or safety data sheet failing which Grow Choice shall have no liability.

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