


Safety Data Sheet

FENOX - Reg. No: L 7774 (Act No 36 of 1947)

Date of issue: 04/04/2011

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1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	FENOX
Other means of identification:	Oxyfluorfen 240 g/L EC
UN number:	1993
Recommended use:	Herbicide
Restrictions on use:	None known
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Emergency Number:	POISON CENTRE (UNITAS HOSPITAL) 012 664 1100 WESTERN CAPE POISONS TELEPHONE SERVICE 0861 555 777 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946
Chemical Name:	Oxyfluorfen: 2-chloro-1-(3-ethoxy-4-nitrophenoxy)-4-(trifluoromethyl)benzene
2) Classification of the substance / mixture:	
Classification of the product:	N; Xi; Xn; R10; R20/21; R36/37/38; R38; R41; R50/53; R61 Full text of R-phrases; see section 15
Label elements:	Hazard statement(s): H140: Very toxic to aquatic life with long lasting effects Precautionary statement(s): P273 Avoid release to the environment. P391 Collect spillage. P501 Dispose of contents/ container to an approved waste disposal plant. Pictogram:  Signal Word: Warning
Health effects: eyes:	May cause moderate to severe irritation.
Health effects: skin:	May cause moderate irritation.
Health effects: ingestion	Harmful if swallowed

Health effects: inhalation	Harmful if swallowed
Health effects: Other	

3) COMPOSITION / INFORMATION ON INGREDIENTS:

Mixture:

Chemical name	Composition	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)	Classification according to 67/548/EEC
Oxyfluorfen	42 %	42874-03-3	255-983-0	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	Xn-: R22; R36/38 N:R50/53

Full text of R- and S-phrases: see section 15.

4) First Aid Measures:

Eye contact:	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance.
Skin contact:	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. Do not rub skin. Seek medical assistance should irritation persist.
Ingestion:	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. One or two glasses of water may be given. For advice, contact the National Poisons Centre. Seek medical assistance immediately.
Inhalation:	Remove patient to fresh air. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance.
Most important symptoms and effects, acute and delayed:	
Indication of immediate medical attention and special treatment needed: Advice to physician	Treat symptomatically and supportively. In the case of ingestion, gastric lavage or oxygen should be performed only by qualified medical personal. The danger of lung aspiration should be weighed against the toxicity when considering emptying the stomach.

5) Fire-Fighting Measures:

Suitable extinguishing media:	For small fires, use foam, carbon dioxide, dry powder or halon extinguishant. For large fires Large fires: Alcohol-resistant foam or water spray. Water can be used for cooling of unaffected stock, but avoid the accumulation of polluted runoff from the site. Contain fire control water for later disposal.
Unsuitable extinguishing media:	No information available
Special hazards arising from the substance or mixture:	This product may generate poisonous, explosive and corrosive fumes (carbon monoxide and nitrous gases) Keep upwind.

<p>Fire-fighting:</p>	<p>Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal.</p> <p>Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated.</p> <p>Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material. Bund area with sand or earth to avoid pollution of waterways. Water can be used to cool containers. Dispose of extinguishing agent and spillage in a safe way at a later stage.</p> <p>Combustible. It will support combustion and decomposes under fire conditions to give off toxic materials. Solvents and/or emulsifiers may contribute to combustibility. Generating poisonous and corrosive fumes. Keep upwind.</p>
<p>Protective clothing:</p>	<p>Full protective clothing and self-contained breathing apparatus</p>
<p>6) Accidental Release Measures:</p>	
<p>Personal precautions:</p> <p>Environmental precautions:</p> <p>Cleaning procedure:</p> <p>Disposal:</p>	<p>Do not inhale vapour or spray. Avoid contact with skin and eyes. For personal protection see section 8.</p> <p>Do not contaminate waterways, drains and groundwater. If contamination of waterways, drains, rivers or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately.</p> <p>Wear protective clothing. Clear area of unprotected personnel. Contain and absorb liquid spills with inert material and place in waste containers. Wash area with water containing soda or detergent and absorb with further inert material. If spill does enter waterways contact the local authority. Heavily contaminated soil layers should be removed and disposed of in an approved way. Spilled product cannot be re-used and must be disposed of by incineration or disposal in a chemical waste disposal facility. If containers cannot be recycled, they should be disposed of together with the waste chemical</p> <p>Waste Disposal:</p> <p>In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.</p> <p>Container Disposal:</p> <p>Refer to the product label for instructions.</p> <p>If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product.</p> <p>DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE.</p> <p>Do not transport if this container is damaged or leaking.</p>
<p>7) Handling & Storage:</p>	
<p>Handling:</p>	<p>Avoid skin and eye contact and inhalation of spray mist. Keep away from heat and sources of ignition. Ensure adequate ventilation.</p> <p>Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use.</p>

<p>Storage:</p>	<p>APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.</p> <p>No decomposition if stored and applied as directed.</p> <p>Store in a cool, dry, well-ventilated storage facility in the original container with lid tightly closed. Ensure that indoor storage facilities are approved and have automatic sprinkler systems. Do not store near food, drink, fertilisers, or animal feed. Avoid heat and sources of ignition. Keep away from direct sunlight.</p>
<p>8) Exposure Control / Personal Protection:</p>	
<p>It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.</p> <p><u>PERSONAL PROTECTIVE EQUIPMENT:</u></p> <p>Clothing:</p> <p>Gloves:</p> <p>Eye protection:</p> <p>Respiratory protection:</p> <p>Emergency eye wash:</p>	<p>Consult supplier to confirm that the equipment is suitable</p> <p>Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.</p> <p>Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance</p> <p>The use of safety goggles with side shields is recommended.</p> <p>Wear respirator if ventilation is inadequate or exposure to high levels are likely</p> <p>Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.</p>
<p>9) Physical & Chemical Properties:</p>	

Form: Colour: Odour: Odour threshold: pH: Melting point / Freezing point Initial boiling point and boiling range Flash point: Evaporation rate: Flammability (solid, gas) Upper/ lower flammability or explosive limits: Vapour pressure: Vapour density: Relative density: Solubility(ies) Partition coefficient: n-octanol/water Auto-ignition temperature: Viscosity:	Liquid Brown Characteristics No data available 4.5-6.5 No data available No data available >65 °C No data available Flammable No data available No data available No data available No data available Emulsifiable in water No data available No data available No data available
10) Stability & Reactivity:	
Reactivity: Chemical stability: Hazardous decomposition product(s): Conditions to avoid: Incompatible materials:	Not available. When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Thermally and chemically stable. Combustible. It will support combustion and decomposes under fire conditions to give off toxic materials. Solvents and/or emulsifiers may contribute to combustibility. Generating poisonous and corrosive fumes. Keep upwind. Avoid extreme temperatures. Protect from sources of heat and direct sunlight Oxidizing agents, acids and nitrogen oxides
11) Toxicological Information:	
Acute: Oral LD50 > 3 510 mg/kg, rat Dermal LD50 > 5 000 mg/kg, rat Inhalation LC50 (4h): > 22.64 mg/L, rat Skin irritation : Moderate irritant, rabbit Eye irritation : Moderate to severe irritant, rabbit Sensitisation : May cause sensitization on laboratory animals, guinea pigs. Other :	
12) Ecological Information:	

Information below based on active ingredient:

Bees: LD₅₀ Non Toxic

Birds: LC₅₀/8 days/ Mallard duck = > 5 000 mg/kg

Fish : LC₅₀ (96 h) for rainbow trout = < 0.5 mg/lt; EC₅₀/48h/daphnia = < 1 500 ug/lt

Algae : EC₅₀ (72h) Green algae (*Selenastrum capricornutum*) 0.43 mg/l

Worms: LC₅₀ (14d) Earthworms (*Eisenia foetida*) 267 mg/kg

Other aquatic species:

Persistence: According to the results of tests of biodegradability this product is not readily biodegradable by hydrolysis in soil and water. Dissipation is mainly due to photodegradation and evaporation

Bioaccumulation: Should not bio-accumulate.

13) Disposal Considerations:

Waste Disposal: In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Refer to the product label for instructions. Triple rinse empty containers before disposal in the following manner: Invert the container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed to a drip. Thereafter, rinse the container three times with a volume of water equal to a third of that of the container volume. Add rinsing to the contents of the spray tank before destroying the container in the prescribed manner. Empty containers should not be burnt; puncture and flatten containers and dispose at a licensed landfill site according to local regulations. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Prevent contamination of water sources, food or feed by disposal. **DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.** If recycling, replace cap and take containers to the designated recycling point. If containers cannot be recycled, they should be disposed of together with the waste chemical according to local regulations.

14) Transportation Information:

UN Number: 1993

Hazard Labels:



Road transport ADR/RID

Class:9

Packing group: III

Shipping name: FLAMMABLE LIQUID, MARINE POLLUTANT

Maritime transport IMDG/IMO

Marine pollutant: Yes

Class: 9

Packing group: III

Shipping name: FLAMMABLE LIQUID, MARINE POLLUTANT

15) Regulatory Information:

Symbols: Xn – Harmful

Xi- Irritant

N - Dangerous for the environment

Risk – Phrase(s):

- R10 – Flammable.
- R20/21 – Harmful by inhalation and in contact with skin.
- R36/37/38 – Irritating to eyes, respiratory system and skin.
- R38 - Irritating to skin,
- R41 – Risk of serious damage to eyes.
- R50/53 – Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R61 – May cause harm to the unborn child.

Safety – Phrase(s):

- S2 - Keep out of reach of children.
- S7 – Keep container tightly closed.
- S13 – Keep away from food, drink and animal feeding stuffs.
- S20/21 – When using, do not eat drink or smoke.
- S23 Do not breathe fumes/vapour/spray.
- S24/25 - Avoid any inhalation, contact with skin and eyes. Wear suitable protective clothing and gloves.
- S29 – Do not empty into drains.
- S35 - This material and its container must be disposed of in a safe way.
- S38 - In case of insufficient ventilation, wear suitable respiratory equipment.
- S39 – Wear eye/face protection.
- S46 –If swallowed, seek medical advice immediately and show this container.
- S57 - Use appropriate containment to avoid environmental contamination.
- S60 – This material and its container must be disposed of as hazardous waste.
- S61 – Avoid release to the environment. Refer to special instructions/Safety data sheets.

Health -Phrase (s)

- H302 – Harmful if swallowed.
- H314 – Causes severe skin burns and eye damage.
- H315 – Causes skin irritation.
- H318 – Causes serious eye damage.
- H319 – Causes serious eye irritation.
- H335 – May cause respiratory irritation.
- H351 – Suspected of causing cancer.
- H400 – Very toxic to aquatic life.
- H410 – Very toxic to aquatic life with long-lasting effects.

16.Other Information

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

It is the responsibility of persons in receipt of this SDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with this product. If the recipient subsequently produces formulation(s) containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this SDS to their own SDS.

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