

Sharda International Africa (Pty) Ltd

(Co. Reg. No. 2010/002268/07)
P.O. Box 82021, Southdale, 2135, South Africa.

Tel: 031 764 3011

Email: rsa.regn@shardaintl.com, Website: <http://www.shardaintl.com>

SECTION 1. Chemical product and company identification

Product identifier:

Identification as on the label/Trade name: **ORYX 240 EC**

Additional information: Oxyfluorfen 240 g/ℓ

Relevant identification uses of the substance and uses advised against:

Identified uses: Herbicide

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

Company name: Sharda International Africa (Pty) Ltd

Address: P.O. Box 82021, Southdale, 2135

Phone number.: 031-764-3011

Emergency telephone numbers:

UNITAS Hospital: 0800-111-9900

Tygerberg Hospital: 021-931-6129

Netcare 911: 082911

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

The mixture is classified according to

SANS 10234:2008, Regulation EC 1272/2008 [EU-GHS/CLP]	
Hazard classes/Hazard categories	Hazard statement
Acute toxicity oral	H303 May be harmful if swallowed
Inhalation	H304 May be fatal if swallowed and enters airways
Skin irritation	H315 Causes skin irritation
Eye damage	H318 Causes serious eye damage
Specific target organ toxicity repeated exposure	H373: May cause damage to organs through prolonged or repeated exposure
Hazardous to the Environment	H400: Very toxic to aquatic life H413: May cause long lasting harmful effects to aquatic life

For full text of H statements see section 16

The most important adverse effects

The most important adverse physiochemical effects: None.

The most important adverse human health effects:

Label elements



Hazard pictograms:

Signal Word: Danger

Hazard Statements: H303: May be harmful if swallowed. H304: H304-May be fatal if swallowed and enters airways
H315: Causes skin irritation. H318: Causes serious eye damage. H373: May cause damage to organs through prolonged or repeated exposure. H400: Very toxic to aquatic life. H413: May cause long lasting harmful effects to aquatic life

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Precautionary Statements: P264 + P280 - Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. P273 - Avoid release to the environment. P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. 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 or doctor/physician if you feel unwell. P337 + P313 - If eye irritation persists: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse. P391 - Collect spillage. P405 - Store locked up. P501 - Dispose of contents/container according to local regulations.

Special labelling of certain mixtures: None

Other hazards: None

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients:

Substance name (IUPAC/EC)	CAS –No.	Concentration % by weight	Classification
			EC1272/2008
Oxyfluorfen	42874-03-3	25.14	Aquatic Acute category 1 Aquatic Chronic category 1
Unitox – 60(EX) / Unitox-33 (EX)*		20	Acute Toxicity Category 4 Skin Irritation category 2 Eye Irritation category 1 Aquatic Chronic category 4
Polyoxyethylene alkyl phenol	9016-45-9	30	Acute Toxicity 4 Skin Irritation category 2 Eye Irritation category 2 Aquatic Chronic category 2
Calcium salt of alkyl aryl sulphonate	26264-06-2	60	Acute Toxicity category 4 Skin Irritation category 2 Eye Irritation category 1 Aquatic Chronic 4
Unitox-33 (EX)		20	Acute Toxicity category 4 Skin Irritation category 2 Eye Irritation category 1 Aquatic Chronic category 4
Polyoxyethylene alkyl phenol	9016-45-9	50	Acute Toxicity category 4 Skin Irritation category 2 Eye Irritation category 2 Aquatic Chronic category 2
Calcium salt of alkyl aryl sulphonate	26264-06-02	40	Acute Toxicity category 4 Skin Irritation category 2 Eye Irritation category 2 Aquatic Chronic category 2
Solvesso 150	64742-94-5	54.86	Aspiration Toxicity category 1

For full text of H statements see section 16

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: pay attention to self-protection

In case of inhalation:

Remove to fresh air. Call a physician or poison control centre immediately.

In case of skin contact:

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediately medical attention is required

In case of eye contact:

In the case of contact with eye, rinse immediately with plenty of water and seek medical advice. Keep eye wide open while rinsing.

In case of ingestion:

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Rinse mouth. Self-protection of the first aider - use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed:

Anticipated acute effects:

Inhalation: May be fatal if swallowed and enters airways

Ingestions: May be harmful if swallowed

Skin contact: Causes skin irritation

Eye contact: Causes serious eye damage

Anticipated delayed effects:

None known

Most important symptoms/effects: None known.

Indication of any immediate medical attention and special treatment needed:

Immediate medical attention is required if exposure to the product. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

SECTION 5. FIRE -FIGHTING MEASURE

Extinguisher media:

Suitable extinguisher media: Use extinguishing measure that are appropriate to local circumstances and the surrounding environment.

SMALL FIRE: See above.

LARGE FIRE: See above.

Unsuitable extinguishing media: Water jet. Use a water jet only to cool heated containers

Specific hazards arising from the mixture: None known

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Advice for fire-fighters:

Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment and emergency procedures:

Remove all sources of ignition. Evacuate personnel to safe areas. Use only with adequate ventilation. Use personal protective equipment as required. Keep people away from an upwind of spill/leak.

For non-emergency personnel: Keep all personal away. Avoid contact with eyes and skin. Do not breathe in fumes

For emergency responders: Alert firefighting personnel, evacuate unprotected personnel and animals.

Protective equipment: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill.

Emergency procedures: Alert fire-fighting personnel, evacuate unprotected personal and animals

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up:

Material for containment and cleaning up:

Take up mechanically, placing in appropriate containers for disposal.

Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

Additional information: None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Use only with adequate ventilation. Keep away from heat, sparks, flames and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharge. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapour/spray

General hygiene Considerations.

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Wash contaminated clothing before reuse.

Conditions for safe storage, including incompatibilities:

Keep in properly labelled containers. Keep containers tightly closed in a cool, well-ventilated place

Incompatible substances: Refer to product label

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SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters:

Occupational exposure limits (OEL): None known

Biological exposure indices (BEI): None known.

Additional exposure limits under the conditions of use: None known.

Exposure control:

Ensure adequate ventilation, especially in confined area

Appropriate engineering controls:

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

Hygiene measures:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Where there is 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

Respiratory protection:

Use a NIOSH approved air-purifying respirator with cartridges/canisters approved for organic vapours.

Hand protection:

The use of chemically protective gloves is recommended to prevent against skin contact.

Eye/face protection:

Tight sealing safety goggles.

Skin and body protection:

Employee must wear appropriate protective (impervious) clothing; boots, hat and equipment to prevent repeated or prolonged skin contact with this substance.

Environmental exposure controls: Environmental manager must be informed of all major spillages.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:	Amber, Liquid.
Odour:	Aromatic
pH (1% aqueous dilution):	5 - 7
Melting point:	Not available.
Freezing Point:	Not available.
Boiling Point:	Not available.
Flash Point:	31.3
Flammability:	Not applicable for liquids
Upper/lower explosion limits:	Not available.

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Vapour Pressure (mm Hg):	Not available.
Relative Vapour Density:	0.94-1.04.
Density:	Not available.
Solubility:	Not available.
n-octanol/water partition coefficient:	Not available.
Auto-ignition temperature:	450
Decomposition temperature:	Not available.
Viscosity:	Not available
Kinematic viscosity:	2.3
Explosive properties	May form explosive mixtures with air
Oxidizing properties	Not oxidizing

SECTION 10. STABILITY AND REACTIVITY

Reactivity: None known

Chemical stability: Stable under normal conditions

Possibility of hazardous reactions: None under normal processing

Conditions to avoid: Heat, flames and sparks

Incompatible materials: No information available

Hazardous decomposition products: None under normal use conditions

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

ACUTE TOXICITY:

Calculated according to GHS

Oxyfluorfen	
Acute toxicity	
Acute Oral LD ₅₀ (rats & dog)	>5000 mg
Acute Dermal LD ₅₀ (rabbits):	>10 000
Acute Inhalation LC ₅₀ (4 h)	>5.4 mg/ℓ
Skin irritation/ corrosion (rabbits)	Causes skin irritation
Eye damage / irritation (rabbits)	Causes serious eye damage
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific Target Organ Toxicity STOT single exposure	Not classified
Specific Target Organ Toxicity STOT repeated exposure	May cause damage to organs through prolonged or repeated exposure
Aspiration hazard	Not classified

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SECTION 12. ECOLOGICAL INFORMATION

Anticipated behaviour of the chemical product in the environment /possible environmental impact/ecotoxicity:

Oxyfluorfen	
Acute toxicity	
Birds	
LD ₅₀ Bobwhite quail	>2150 mg/kg
Dietary LC ₅₀ (8 d) mallard and bobwhite quail	>5000 ppm
Fish	
LC ₅₀ (96 h) bluegill sunfish	0.2 mg/ℓ
Trout	0.41 mg/ℓ
Channel catfish	0.4 mg/ℓ
Daphnia	
LC ₅₀ (48 h)	1.5 mg a.i. /ℓ
Bees – not toxic to honeybees at	0.025 mg a.i./bee
Worms	
Practically non-toxic	
LC ₅₀	>1000 mg/kg soil

Persistence and degradability:

Bio-accumulative Potential: Not determined.

Mobility in soil:

Other adverse effects: Not determined.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

General Information: Do not discharge into drains, water courses or onto the ground. Discharge, treatment or disposal may be subject to national, state, or local laws. Empty containers may contain product residues. Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

Disposal Methods: Destroy the container by perforating and flattening and dispose of through an approved waste dump site, incineration plant or recycling company.

Container: Since emptied containers retain product residue, follow label warnings even after container is emptied.

Product/ packaging disposal:

Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number: 1993
Un proper shipping name: Flammable Liquid, N.O.S (Xylene)
UN Classification transport hazard class(es): 3
Packing group (if applicable): II
Marine pollutant (Y/N): Yes, Considered a marine pollutant
Transport in bulk according to MARPOL 73/78, Annex II and the IBC Code: Not available

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SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP] and EU directives 67/548/EEC or EC 1999/45/EC

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 11014:2010 – Safety data sheet for chemical products, Content and order section

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management: Waste Act 59 of 2008.

Chemical Safety Assessment carried out? No

SECTION 16. OTHER INFORMATION

Indication of changes:

GHS aligned

Relevant classification and H statements (number and full text):

H303: May be harmful if swallowed

H304: H304-May be fatal if swallowed and enters airways

H315: Causes skin irritation

H318: Causes serious eye damage

H373: May cause damage to organs through prolonged or repeated exposure

H400: Very toxic to aquatic life

H413: May cause long lasting harmful effects to aquatic life

Training instructions:

Use as indicated on the label, special training may be required for application.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

To the best of our knowledge, the information contained herein is accurate and is based on the present state of our knowledge and does not therefore guarantee specific properties. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for any accuracy or completeness of the information contained herein.

Final determinations of suitability of any material are sole responsibility of the users, who must take responsibility for observing existing laws and regulations. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.