Read the label before opening the container. For full particulars, see enclosed leaflet.

KEEP OUT OF REACH OF CHILDREN AND ANIMALS

OXYFEN

South Africa Reg. No: L7663 Act No. 36 of 1947

HRAC HERBICIDE GROUP CODE: E

An emulsifiable concentrate herbicide to control a variety of annual broadleaf and grass weeds in crops and forestry as listed.

ACTIVE INGREDIENT:

Oxyfluorfen (diphenyl ether).....240g/ℓ



DANGER

Product Information: 072 678 8226
In case of poisoning: 082 446 8946

HAZARD STATEMENTS

- Combustible liquid.
- May be fatal if swallowed and enters airways.
- Causes skin irritation.
- Causes serious eye damage.
- May cause respiratory irritation.
- May cause drowsiness or dizziness.
- May cause damage to organs through prolonged or repeated exposure.
- Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

- Wash hands, forearms, and face thoroughly after handling
- Do not eat, drink, or smoke when using this product.

enviro™ bio-chem

Registration holder: Erintrade CC t/a R T Chemicals
Co. Reg. No: CK2001/036403/23
44 Kerk Street, Lichtenburg NW, South-Africa
Tel: +27 12 006 0063 | Fax: +27 86 541 7948
Web: www.envirobiochem.co.za

Expiry Date:
Batch No:
Date of Manufacture:

UN No. 3082

WARNINGS:

- Combustible liquid.
- May be fatal if swallowed and enters airways.
- Causes skin irritation.
- Causes serious eye damage.
- May cause respiratory irritation.
- May cause drowsiness or dizziness.
- May cause damage to organs through prolonged or repeated exposure.
- Toxic to aquatic life with long lasting effects.
- Keep out of reach of children, uninformed persons and animals.
- Store under lock and key, in a cool place, away from food and feedstuffs.
- Toxic to fish. Prevent contamination of dams and rivers.
- Re-entry: Do not enter the treated field until the spray deposit has dried unless wearing protective clothing.

Although this remedy has been extensively tested under a large variety of conditions the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be effected by factors such as abnormal soil, climatic and storage conditions; quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the pest against the remedy concerned as well as by the method, time and accuracy of the application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions, which could not have been foreseen in terms of the registration. Consult the supplier in event of any uncertainty.

PRECAUTIONS:

- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
- Keep container tightly closed
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Wash hands, forearms, and face thoroughly after handling
- Do not eat, drink, or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF exposed or concerned: Get medical advice/attention.
- Call a POISON CENTER or doctor/physician if you feel unwell.
- Take off contaminated clothing and wash before reuse.
- Prevent contamination of food, feedstuff, eating utensils and drinking water.
- Prevent drift of spray mist onto other crops, grazing, rivers, dams or areas not under treatment.
- Triple rinse empty container in the following manner: Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the empty container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsings to the content of the spray tank. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

RELEVANT SUBSTANCES:

Oxyfluorfen 16.7 %
Dimethyl benzene < 70 %
Calcium dodecylbenzenesulfonate < 5 %

FIRST AID TREATMENT:

INHALATION: Remove person to fresh air and keep comfortable for breathing.
INGESTION: Immediately call a POISON CENTER or doctor/physician.
SKIN CONTACT: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation occurs: Get medical advice/attention.
EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
If eye irritation persists: Get medical advice/attention.

RESISTANCE WARNING:

For resistance management **OXYFEN** is a **group code E** herbicide. Any weed population may contain individuals naturally resistant to **OXYFEN** and other **group code E** herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. **OXYFEN** or any other **group code E** herbicide may not control these resistant weeds.
To delay herbicide resistance:

- Avoid exclusive repeated use of herbicides from the same herbicide group code.
- Alternate or tank mix with products from different herbicide group codes.
- Integrate other control methods (chemical, cultural, biological) into weed control programmes.

For specific information on resistance management contact the registration holder of this product.

DIRECTIONS FOR USE: Use only as indicated.

- **OXYFEN** should be applied by tractor-mounted boom sprayer or knapsack sprayer equipped with Teejet flat fan-nozzles which should deliver the spray mixture per hectare at a pressure of 100 to 200kPa.
- Ensure the mixture is agitated during mixing and spraying.
- Ensure the sprayer is correctly calibrated.
- Ensure a uniform distribution of spray material on the target area.
- Ensure application onto a clean soil surface free of clods and dead plant material.
- Apply to damp soil, ensuring that the soil does not dry out at any stage.
- Beware of inadequate surface soil moisture where drip irrigation is practised.
- **OXYFEN** must not be used in conjunction with any other weed killer as crop injury may result. Cultivation after application will reduce weed control.
- Ensure a thorough and deep ploughing of soil previously treated with **OXYFEN** before planting any follow-up crops.
- Allow a period of 2 months for each 1.0ℓ applied to elapse before planting a follow up annual crop.
- Do not treat direct seeded crops, sown on soil treated with **OXYFEN**, with acetamide herbicides.

CROP	DOSAGE	REMARKS
TRANSPLANTED ONIONS		Some onion cultivars may show some injury after application. This is temporary and recovery will take place. Immediately follow applications of **OXYFEN** with thorough irrigation. Apply only to plants that have reached 2 to 3 leaf growth stage.
Long season cultivars	3ℓ in 350ℓ water/ha	Apply directly after transplanting.
	OR 1.5ℓ + 1.5ℓ in 350ℓ water/ha	Apply first spray directly after planting and follow up with a second spray at the same rate 4 weeks later.

CROP	DOSAGE	REMARKS
Short season cultivars	1ℓ + 1ℓ in 350ℓ water/ha	For broadleaf weeds only. Apply fist spray directly after planting and apply a second spray 4 weeks later.
	OR 1.5ℓ + 1.5ℓ in 350ℓ water/ha	For grasses and broadleaf weeds. Apply first spray directly after planting and apply a second spray 4 weeks later.
ONIONS **For Seed Production** *(Hybrids)*	3ℓ in 350ℓ water/ha	Apply immediately after planting of female bulbs.
	OR 1.5ℓ + 1.5ℓ in 350ℓ water/ha	Apply first spray directly after planting and apply a second spray 4 weeks later.
DIRECT SEEDED ONIONS *(Karoo Region)*	3ℓ in 350ℓ water/ha	For use on Caledon Globe and Australian Brown cultivars only. Apply in the 3 to 4 leaf stage to a clod and weed free surface.
DIRECT SEEDED ONIONS *(Summer Rainfall Regions)* **Post-emergence**	1 - 1.5ℓ in 350ℓ water/ha	Apply on direct seeded onions only after seedlings have developed 2 fully expanded leaves. Weeds more advanced than the 2 to 3 leaf stage or under stress may not be satisfactorily controlled. If weed pressure remains high, apply a further application of 1.5ℓ per ha 4 to 6 weeks later. Use a lower rate on less hardy cultivars.
GARLIC	3ℓ in 350ℓ water/ha	Apply immediately after planting. **OXYFEN** may cause scorch under cold and damp conditions or late emergence due to high soil temperature may also cause scorch.
BRASSICAE	2 - 3ℓ in 350ℓ water/ha	Where grasses are less problematic and/or a 2 month residual effect is required, use the lower rate. Apply to fields where soil surface is well prepared and free of clods, as a pre-plant overall treatment. Transplant brassica crops into treated soil 7 to 10 days after application. Irrigate immediately after planting. Beware of leaf scorch, which is of a temporary nature. Do not apply **OXYFEN** after transplanting as this will cause severe damage. Do not use where a machine is used for transplanting or during the cool months of the year. Broccoli: Do not treat late or unseasonal plantings.

CROP	DOSAGE	REMARKS
BRASSICAE (continued)	2 - 3ℓ in 350ℓ water/ha	**Use on the following cultivars:** **Broccoli:** Green Sprouting Calabrese, Late Corona. **Brussels Sprouts:** Jade Cross, Long Island **Cabbage:** Bonanza, Cape Spitz, Drum Head, Gloria Osena, Glory of Enkhuizen, Green Coronette, Hercules, NS Cross, Rodelle, Rolan, Shamrock **Cauliflower:** Couchamp, Igloo, Snowking, Snowcrown, Snow February.
FORESTRY		Ensure no leaf contact with **OXYFEN** for all crops. Apply to a soil surface free of weeds and clods. Beware of leaf scorch, which is of a temporary nature and will not affect further growth. Avoid contact and/or vapour damage to non-target crops.
PINES Pre-emergence: Seedlings	3ℓ in 400ℓ water/ha	Pre-emergence weed control in seedbeds, container stock and transplants of *Pinus elliotti, Pinus taeda* and *Pinus patula.* Apply to seedbeds immediately after sowing.
Post-emergence: Seedlings, Transplants & Container stock	3ℓ in 400ℓ water/ha	Apply to seedlings 10 to 12 weeks after sowing as well as to older plants. Apply before bud-break.
EUCALYPTUS Pre-plant	3ℓ in 400ℓ water/ha	Apply to soil surface prior to transplanting of seedlings.
Post-plant	3ℓ in 400ℓ water/ha	Apply within 4 days of transplanting and prior to weed emergence. Apply to plantings of *Eucalyptus grandis, E. nitens* and *E. macarthurii.* Beware of scorch on seedlings, which is of a temporary nature, provided seedlings are disease free.
SUGARCANE		Apply 3ℓ **OXYFEN** in 350 ℓ water/ha immediately after planting or 1 week after cutting, before weed emergence. Irrigate within 48 hours of the application or apply to recently irrigated damp soil

OXYFEN USE IN PERENNIAL CROPS:

Prevent **OXYFEN** coming into contact with the leaves of trees and vine crops as this will result in localized injury. Cool, damp, and windless conditions may result in **OXYFEN** vapour causing scorching of lower leaves especially in young trees, however this is localized and will not result in further damage. Sensitive crops planted in the inter-row or adjacent to these crops may exhibit injury symptoms due to the vapour action of **OXYFEN**. Any existing weeds should be hand weeded or treated with a suitable foliar applied herbicide before applying **OXYFEN** to the bare soil surface.

CROP	REMARKS
CITRUS	Apply 3-4ℓ **OXYFEN** in 500ℓ water/ha to citrus trees of all ages, including nurseries. Do not apply in bearing orchards from 3 week before blossoming to 3 weeks after fruit set. Do not apply during periods of new foliar growth and apply only when foliage has expanded fully and is matured. Apply as a direct spray away from the foliage in nurseries after transplanting. Use the lower rate for broadleaf weed control.
POME and STONE FRUITS	Apply 3-4ℓ **OXYFEN** in 500ℓ water/ha as a directed spray away from the crop foliage in pome and stone fruit orchards as well as in apple and pear nurseries. Use the lower rate for broadleaf weed control only. When applying in apple and pear nurseries, spray immediately after grafting and planting or to actively growing nursery stock over 60cm high. **Do not apply OXYFEN in deciduous fruit orchards from one month before budswell until beginning of December.**

WEEDS CONTROLLED BY OXYFEN	
ANNUAL BROADLEAF WEEDS	
COMMON NAME	BOTANICAL NAME
Red Pigweed	*Amaranthus Thunbergii*
Thorny Pigweed	*Amaranthus Spinosus*
Common Pigweed	*Amaranthus Hybridus*
Perennial Pigweed	*Amaranthus Deflexus*
Pimpernel	*Anagallis Arvensis*
Cape Marigold	*Arctotheca Calendula*
White Flowered Mexican Poppy	*Argemone Subfusiformis*
Shepherd's Purse	*Capsella Bursa-Pastoris*
White Goosefoot	*Chenopodium Album*
Green Goosefoot	*Chenopodium Carinatum*
Large Thorn Apple	*Datura Ferox*
Thorn Apple	*Datura Stramonium*
Spiny Emex	*Emex Australis*
Fumitory	*Fumaria Muralis*
Gallant Soldier	*Galinsoga Parviflora*
Bur Clover	*Medicago Polymorpha*
Evening Primrose	*Oenothera Stricta*
Narrow Leaved Ribwort	*Plantago Lanceolata*
Prostrate Knotweed	*Polygonum Aviculare*
Purslane	*Portulaca Oleracea*
Common Wild Radish	*Raphanus Raphanistrum*
Dwarf Marigold	*Schkuhria Pinnata*
Gunpowder Weed	*Silene Gallica*
Common Wild Mustard	*Sisymbrium Thellungii*
Sowthistle	*Sonchus Oleraceus*
Corn Spurry	*Spergula Arvensis*
Chickweed	*Stellaria Media*
Khaki Weed	*Tagetes Minuta*

ANNUAL GRASS WEEDS:	
COMMON NAME	**BOTANICAL NAME**
Common Wild Oats	*Avena Fatua*
Crab Finger Grass	*Digitaria Sanguinalis*
Jungle Rice	*Echinochloa Colona*
Barnyard Grass	*E. Crus-Galli*
Goose Grass	*Eleusine Indica*
Italian Ryegrass	*Lolium Multiflorum*
Winter Grass	*Poa Annua*
WEEDS CONTROL BY OXYFEN AS A POST-EMERGE TREATMENT (2 TO 3 LEAF STAGE) AT 1 TO 1.5ℓ/HA	
Perennial Pigweed	*Amaranthus Deflexus*
Shepherd's Purse	*Capsella Bursa-Pastoris*
Green Goosefoot	*Chenopodium Carinatum*
Large Thornapple	*Datura Ferox*
Jungle Rice	*Echinochloa Colonum*
Bur Clover	*Medicago Polymorpha*
Purslane	*Portulaca Oleracea*
Dwarf Marigold	*Schkuhria Pinnata*