

Safety Data Sheet

DICLON- Reg. No: L 8133 (Act No 36 of 1947)

Date of issue: 20/07/2010

Date of revision: 26311/2016

1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	DICLON 375 EC
Other means of identification:	Diclofop-methyl 378 g/L EC
UN number:	3082
Recommended use:	Herbicide
Restrictions on use:	Agriculture
Distributed by:	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 0866901386 MOBILE: 0834006056 www.agritech.co.za
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:	methyl 2-[4-(2,4-dichlorophenoxy)phenoxy] propanoate
2) Classification of the substance / mixture:	
Classification of the product:	N; Xn; R22; R36/37/38; R43; R50/53; R61; R65 Full text of R-phrases; see section 15.
Label elements:	Hazard statement: H410: Very toxic to the aquatic life with long lasting effects Precautionary statements: P410: Keep out of reach of children P501: Dispose of contents/ Container to an approved waste disposal plant. Pictogram:



Signal Word: **WARNING**

Health effects: eyes:

May cause severe irritation

Health effects: skin:

May be harmful if absorbed and cause sensitization with prolonged contact.

Health effects: ingestion

May be harmful if swallowed. May cause reproductive / development damage from repeated exposure. May cause kidney damage from repeated high dose exposure.

Health effects: inhalation

May cause irritation and be harmful.

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
Diclofop-methyl	37.8%	51338-27-3	257-141-8	Acute Tox. 4, H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	Xn; R22 R43 N: R50-53
Aromatic hydrocarbon mixture	>30%	64742-94-5	265-198-5	Asp. Tox. 1, H304	Xn, R65

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. Obtain medical attention if irritation persists.

Skin contact:

Thoroughly wash body with large amounts of water and soap. Remove contaminated clothing and footwear. Wash affected areas with soap and water. Persons providing first aid must wear gloves to avoid self-contamination.

Seek medical assistance should irritation persist. Wash contaminated clothing before re-use

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.

<p>Inhalation:</p> <p>Most important symptoms and effects, acute and delayed:</p> <p>Indication of immediate medical attention and special treatment needed: Advice to physician</p>	<p>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.</p> <p>Seek medical assistance.</p> <p>None known</p> <p>Treat symptomatically. If swallowed, administer 200 ml liquid paraffin. Administer gastric lavage with at least 4 litres of water, followed by animal charcoal and sodium sulphate. Pulmonary aspiration must be avoided. Derivatives or adrenaline is contra-indicated. Product contains aromatic solvent. Symptomatic treatment and supportive therapy as necessary</p>
<p>5) Fire-Fighting Measures:</p>	
<p>Suitable extinguishing media:</p> <p>Unsuitable extinguishing media:</p> <p>Special hazards arising from the substance or mixture:</p>	<p>Fine water spray, foam, carbon dioxide or dry chemical</p> <p>Water jet, due to contamination risk.</p> <p>UNUSUAL FIRE OR EXPLOSION HAZARDS: Cool sealed drums with water to prevent rupture due to thermal expansion.</p>
<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.</p> <p>Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. If area is heavily exposed to fire and if conditions permit, let fire burn itself out. 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. Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material. Avoid pollution of waterways.</p> <p>UNUSUAL FIRE OR EXPLOSION HAZARDS: Generating poisonous and corrosive fumes.</p>
<p>Protective clothing:</p>	<p>Full protective clothing and self-contained breathing apparatus. When fighting a major fire wear an air-supplied respirator.</p>
<p>6) Accidental Release Measures:</p>	
<p>Personal precautions:</p> <p>Environmental precautions:</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>Cleaning procedure:</p> <p>Disposal:</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>
7) Handling & Storage:	
<p>Handling:</p> <p>Storage:</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>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.</p> <p>BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.</p> <p>Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Store out of direct sunlight and avoid temperatures below -10 or above 35. Keep away from children and uninformed persons.</p>
8) Exposure Control / Personal Protection:	
<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>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>

Eye protection:	The use of safety goggles with side shields is recommended.
Respiratory protection:	Wear respirator if ventilation is inadequate or exposure to high levels are likely
Emergency eye wash:	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.

9) Physical & Chemical Properties:

Form:	Liquid
Colour:	Dark brown
Odour:	Aromatic solvent
Odour threshold:	No data available
pH:	No data available
Melting point / Freezing point	No data available
Initial boiling point and boiling range	Not flammable
Flash point:	No data available
Evaporation rate:	Not flammable
Flammability (solid, gas)	No data available
Upper/ lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	Emulsifies in water.
Solubility(ies)	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature:	No data available
Viscosity:	

10) Stability & Reactivity:

Reactivity:	
Chemical stability:	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
Hazardous decomposition product(s):	None known
Conditions to avoid:	Protect from high temperatures, open flames, sparks and sources of ignition.
Incompatible materials:	Acids and bases

11) Toxicological Information:

Acute:	
Oral LD50	>2 000 mg/kg, rat
Dermal LD50	> 5 000 mg/kg, rats
Inhalation LC50 (4h): No data available	
Skin irritation	: Moderate skin irritant, rabbit
Eye irritation	: Moderate irritant, rabbit (Reversible)
Sensitisation	: May cause sensitization, guinea pigs.
Other	:

Repeated dose toxicity

Mutagenicity: No data available

Carcinogenicity: No data available

Teratogenicity: Not teratogenic in animal experiments

12) Ecological Information:**Information below based on active ingredient:**

Bees: LC50 (oral & contact): > 1.134Kg/bee. Not toxic to bees.

Birds: LD50: Japanese quail: > 10 000 mg/kg,

Fish: LC50 (96hrs) Rainbow trout:0.23 mg/L, Bluegill sunfish: 0.15 mg/L, Daphnia: Moderately to very toxic to Daphnia magna: > 0.23 mg/L Moderately to very toxic to fish

Algae: EC50 (96h-120h) :1.5 mg/L green algae

Worms:

Other aquatic species:

Persistence: In various soil field trials, DT50 1-57d, DT90 30-281d. Irrigation studies indicate low levels of leaching even in sandy soils. Soil adsorption Koc 14 000-24 400 mg/kg

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: 3082

Road Transport ADR/ RID:

Class: 9

Packaging group: III

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DICLOFOP-METHYL)

Maritime Transport IMDG / IMO:

Marine Pollutant: Yes

Class: 9

Packaging group: III

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DICLOFOP-METHYL)

Air Transport ICAO/IATA:

Class: 9

Packing group: III

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DICLOFOP-METHYL)

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC code): NA

15) Regulatory Information:

Labelling according to EC directives:

Hazardous components which must be listed on the label: DICLOFOP-METHYL

Symbols: Xn – Harmful.

Xi – Irritant

N - Dangerous for the environment

Risk – Phrase (s):

R22 - Harmful if swallowed.

R 36/38 - Irritating to eyes and skin.

R 43 - May cause sensitization by skin contact

R48 - Danger of serious damage to health by prolonged exposure.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 61 – May cause harm to the unborn child.

R 65 – Harmful: may cause lung damage if swallowed.

Safety – Phrase (s):

S 2 - Keep out of the reach of children.

S23 – Do not breathe fumes and vapour. S 24/25 - Avoid contact with skin and eyes.

S 36/39 - Wear suitable protective clothing and eye/face protection.

S 60 - This material and its container must be disposed of as hazardous waste.

S 61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

S62 – If swallowed, do not induce vomiting: see medical advice immediately and show this container or label.

Hazard Statements

H302 – Harmful if swallowed.

H304 – May be fatal if swallowed and enters airways.

H317 – May cause an allergic skin reaction.

H400 – Very toxic to aquatic life.

H411 – 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.

The information contained herein is provided in good faith but makes no representation as to its comprehensiveness or accuracy. A properly trained person using this product intends this document only as a guide to the appropriate handling of the material. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

MERIDIAN AGRITECH MAKES NO REPRESENTATION OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MERIDIAN AGRITECH (PTY) LTD WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.