

## Safety Data Sheet

### ULTRAMOC S EC - Reg. No: L 7342 (Act No 36 of 1947) N-AR-1636

Date of issue: 16/07/2003

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1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	ULTRAMOC S EC
Other means of identification:	Metolachlor 800 g/L + Dichlormid 40 g/L EC
UN number:	3082
Recommended use:	Herbicide
Restrictions on use:	For use as an agricultural remedy only.
Distributed by:	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 0866901386 MOBILE: 0834006056 <a href="http://www.agritech.co.za">www.agritech.co.za</a>
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:	Metolachlor: 2-chloro- <i>N</i> -(2-ethyl-6- methylphenyl)- <i>N</i> -(2methoxy-1- methylethyl)acetamide Dichlormid: 2,2-dichloro- <i>N,N</i> -dipropenylacetamid
2) Classification of the substance / mixture:	
Classification of the product:	N Xi R 43 R50/53 H317
Label elements:	 Xi – Irritant  For full text of symbols, R phrases and H statements refer to section 15.
Health effects: eyes:	May cause irritation to eyes
Health effects: skin:	May cause irritation to skin. Contact skin sensitiser.
Health effects: ingestion	Harmful if swallowed
Health effects: inhalation	Unlikely to cause harmful effects under normal conditions and use
Health effects: Other	No data available
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
Metolachlor	80.0	947601-85-6	-	Skin Sens. 1: H317	Xi: Irritant
Dichlormid	4.0				

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

#### 4) First Aid Measures:

<p><b>Eye contact:</b></p>	<p>Flush eyes with plenty of clean water for at least 15 minutes holding eyelids open if necessary. <b>Seek medical assistance immediately.</b> Use safety goggles.</p> <p>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.</p> <p>Never give anything by mouth to an unconscious person. If swallowed. For advice, contact the National Poisons Centre. <b>Seek medical assistance immediately and show this data sheet.</b></p> <p>Remove patient to well ventilated area and loosen clothing around the neck. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation.</p> <p>Symptoms of ingestion: Diarrhoea, shortness of breath, vomiting and weakness.</p> <p>Administer medicinal charcoal in large quantities of water. Perform gastric lavage and catharsis if the victim is not unconscious. If less than 10 mg per kg body weight was ingested, administer 30 – 60 g activated charcoal in 150 – 300 ml water. Epinephrine, atropine and expectorants are not generally helpful and may complicate treatment. Symptomatic treatment and supportive therapy as indicated.</p>
<p><b>Skin contact:</b></p>	
<p><b>Ingestion:</b></p>	
<p><b>Inhalation:</b></p>	
<p><b>Most important symptoms and effects, acute and delayed:</b></p>	
<p><b>Indication of immediate medical attention and special treatment needed: Advice to physician</b></p>	

#### 5) Fire-Fighting Measures:

<p><b>Suitable extinguishing media:</b></p>	<p>For small fires, use foam, carbon dioxide, dry powder or halon extinguishant. For large fires, use foam or water-fog.</p>
<p><b>Unsuitable extinguishing media:</b></p>	<p>Avoid the use of a water jet.</p>
<p><b>Special hazards arising from the substance or mixture:</b></p>	<p>Generates poisonous and Corrosive fumes.</p>

<p><b>Fire-fighting:</b></p> <p><b>Protective clothing:</b></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. Keep upwind. Remove containers 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 and avoid polluting waterways. Avoid the accumulation of polluted run-off from the site.</p> <p>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. Cool containers/tanks with spray water.</p> <p>Full protective clothing and self-contained breathing apparatus</p>
<p><b>6) Accidental Release Measures:</b></p>	
<p><b>Personal precautions:</b></p> <p><b>Environmental precautions:</b></p> <p><b>Cleaning procedure:</b></p> <p><b>Disposal:</b></p>	<p>Wear protective clothing according to operator safety during removal of spillage. Wear eye protection, chemically resistant gloves, boots and coveralls.</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. Soak up with absorptive material such as sand, soil, diatomaceous earth, etc. Prevent product from spreading and collect into specially marked, tightly closing containers. Treat contaminated areas with water containing soda or detergent. Collect washings to avoid any contamination of surface and ground water, water supplies and drains. Heavily contaminated soil layers should be removed and disposed of in an approved way.</p> <p><b>Waste Disposal:</b></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><b>Container Disposal:</b></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><b>DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE.</b></p> <p>Do not transport if this container is damaged or leaking.</p>
<p><b>7) Handling &amp; Storage:</b></p>	
<p><b>Handling:</b></p> <p><b>Storage:</b></p>	<p>Wear protective clothing according to operator safety during removal of spillage. Wear eye protection, chemically resistant gloves, boots and coveralls. Hygiene measures: Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.</p> <p>Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds.</p> <p>Keep away from children or uninformed persons.</p>
<p><b>8) Exposure Control / Personal Protection:</b></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><b><u>PERSONAL PROTECTIVE EQUIPMENT:</u></b></p> <p><b>Clothing:</b></p> <p><b>Gloves:</b></p> <p><b>Eye protection:</b></p> <p><b>Respiratory protection:</b></p> <p><b>Emergency eye wash:</b></p>	<p>Consult supplier to confirm that the equipment is suitable.</p> <p>Employee must wear appropriate protective (impervious) clothing and equipment. Wash contaminated clothing before re-use.</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><b>9) Physical &amp; Chemical Properties:</b></p>	
<p><b>Form:</b></p> <p><b>Colour:</b></p> <p><b>Odour:</b></p> <p><b>Odour threshold:</b></p> <p><b>pH:</b></p> <p><b>Melting point / Freezing point</b></p> <p><b>Initial boiling point and boiling range</b></p> <p><b>Flash point:</b></p> <p><b>Evaporation rate:</b></p> <p><b>Flammability (solid, gas)</b></p> <p><b>Upper/ lower flammability or explosive limits:</b></p> <p><b>Vapour pressure:</b></p> <p><b>Vapour density:</b></p> <p><b>Relative density:</b></p> <p><b>Solubility(ies)</b></p> <p><b>Partition coefficient: n-octanol/water</b></p> <p><b>Auto-ignition temperature:</b></p> <p><b>Viscosity:</b></p>	<p>Liquid</p> <p>Brown opaque liquid</p> <p>Distinct benzene odour</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>&gt;100 °C</p> <p>No data available</p> <p>Combustible</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>Emulsifies in water</p> <p>No data available</p> <p>No data available</p> <p>No data available</p>
<p><b>10) Stability &amp; Reactivity:</b></p>	
<p><b>Reactivity:</b></p> <p><b>Chemical stability:</b></p>	<p>Not available.</p> <p>When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Thermally and chemically stable.</p>

<b>Hazardous decomposition product(s):</b>	None under normal conditions. Fire may produce irritating or poisonous vapours, mists or other products of combustion
<b>Conditions to avoid:</b>	No data available.
<b>Incompatible materials:</b>	No data available.

### 11) Toxicological Information:

Acute:

Oral LD50 female rats 1063, male rats 1936 mg/kg.

Dermal LD50 > 5 050 mg/kg, rat

Inhalation LC50 (4h): >2.02 mg/L air, rat

Skin irritation : Mild irritant

Eye irritation : Mild irritant.

Sensitisation : May cause sensitization on laboratory animals (guinea pigs).

Mutagenicity : No data available

Carcinogenicity : No data available

Reproductive toxicity : No data available

Teratogenicity : No data available

Repeated dose toxicity: No data available

### 12) Ecological Information:

**Information below based on active ingredient:**

**Bees:** LD50 (oral and contact) >110 µg/bee.

**Birds:** Acute oral LD<sub>50</sub> for mallard ducks and bobwhite quail >2150 mg/kg. Dietary LC<sub>50</sub> (8 d) for bobwhite quail and mallard ducks >10 000 mg/kg.

**Fish** : LC<sub>50</sub> (96 h) for rainbow trout 3.9, carp 4.9, bluegill sunfish 10 mg/l.

**Algae** : EC<sub>50</sub> for *Scenedesmus subspicatus* 0.1 mg/l.

**Worms:** LC<sub>50</sub> (14 d) for earthworms 140 mg/kg soil.

**Other aquatic species:** Daphnia: LC<sub>50</sub> (48 h) 25 mg/l.

#### Persistence

Rapidly oxidised by rat liver microsomal oxygenases via dechlorination, O-demethylation and sidechain oxidation (*J. Agric. Food Chem.*, 1989, 37, 1088). **Plants** In plants, metabolism involves natural product conjugation of the chloroacetyl group, and hydrolysis and sugar conjugation at the ether group. Final metabolites are polar, water-soluble, and non-volatile.

**Soil/Environment** Major aerobic metabolites are derivatives of oxanilic and sulfonic acids. DT<sub>50</sub> in soil c. 20 d (field). K<sub>oc</sub> 121–309.

**Biodegradation:** No data available.

**Bioaccumulative potential:** No data available.

**Bioconcentration factor:** No data available.

**Mobility in soil:** No data available.

**Results of PBT and vPvB assessment:** No data available.

**Other adverse effects:** No data available.

### 13) Disposal Considerations:

**Waste Disposal:** In accordance with local and national regulations. 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. 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.

If containers cannot be recycled, they should be disposed of together with the waste chemical

DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE.

Do not transport if this container is damaged or leaking.

#### 14) Transportation Information:

UN NUMBER: 3082

N:

Xi:

Road Transport ADR/ RID:

Class: 9

Packaging group: III

Labelling no: 9

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, Liquid, N.O.S. (Metolachlor, Dichlormid)

Environmental hazards:

Special precautions for user:

Maritime Transport IMDG / IMO:

Class: 9

Packaging group: III

Labelling no: 9

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, Liquid, N.O.S. (Metolachlor, Dichlormid)

Environmental hazards:

Special precautions for user:

Air Transport ICAO/IATA:

Class: 9

Packing group: III

Labelling no: 9

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, Liquid, N.O.S. (Metolachlor, Dichlormid)

Environmental hazards:

Special precautions for user:

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC code): Not applicable

#### 15) Regulatory Information:

**Symbols:** Xn – Harmful

N - Dangerous for the environment

#### Risk – Phrase:

R43 - May cause sensitisation by skin contact.

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

#### Safety – Phrase:

S 2 - Keep out of the reach of children.

S13 - Keep away from food, drink and animal feeding stuffs.

S20/21 - When using do not eat, drink or smoke.

S24 - Avoid contact with skin.

S35 - This material and its container must be disposed of in a safe way.

S36/37 - Wear suitable protective clothing and gloves.

S57 - Use appropriate container to avoid environmental contamination.

#### Hazard Statements

H317 - May cause an allergic skin reaction.

#### 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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