

Safety Data Sheet

UNIMOC - Reg. No: L 7341 (Act No 36 of 1947) N-AR 1553

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1) PRODUCT AND COMPANY IDENTIFICATION	
Product name:	Unimoc EC
UN No:	3082, 1993
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 TYGERBERG:021 931 6129 RED CROSS: 021 689 5227 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> -(2-methoxy-1- methylethyl)acetamide
2) Hazards Identification:	
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
3) Composition Details:	
COMPOSITION	Metolachlor 960 g/ ℓ
4) First Aid Measures:	
Inhalation:	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.
Skin contact:	Strip off al contaminated clothing and 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
Eye contact:	Flush eyes with plenty of clean water for at least 15 minutes holding eyelids open if necessary. Seek medical assistance immediately. Use safety goggles.
Ingestion	Never give anything by mouth to an unconscious person. If swallowed. For advice, contact the National Poisons Centre. Symptoms include diarrhoea, shortness of breath, vomiting and weakness. Seek medical assistance immediately and show this data sheet.
Advice to physician:	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

	<p>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>
5) Fire-Fighting Measures:	
<p>Flash point:</p> <p>Extinguishing Media:</p> <p>Fire Fighting:</p>	<p>Not highly flammable</p> <p>For small fires, use foam, carbon dioxide, dry powder or halon extinguishant. For large fires, use foam or water-fog; avoid the use of a water jet.</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. 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. 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>Generates poisonous and Corrosive fumes.</p>
Protective clothing:	Full protective clothing and self-contained breathing apparatus
6) Accidental Release Measures:	
<p>Personal precautions:</p> <p>Occupational spill:</p>	<p>Wear protective clothing according to operator safety during removal of spillage. Wear eye protection, chemically resistant gloves, boots and coveralls.</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>
7) Handling & Storage:	
<p>Handling:</p> <p>Storage:</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. Keep away from children or 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>	

Clothing:	Employee must wear appropriate protective (impervious) clothing and equipment. Wash contaminated clothing before re-use.
Gloves:	Employee must wear appropriate chemical-resistant gloves.
Eye protection:	The use of safety goggles or face shields is recommended.
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, Emulsifiable concentrate
Colour:	Brown opaque liquid
Odour:	Distinct benzene odour
10) Stability & Reactivity:	
Stability:	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
Hazardous decomposition product(s):	Fire may produce irritating or poisonous vapours, mists or other products of combustion.
11) Toxicological Information: Based on Technical Active Ingredient.	
<p>Oral : Acute oral <u>LD₅₀</u> for female rats 1063, male rats 1936 mg/kg..</p> <p>Inhalation : <u>LC₅₀</u> (4 h) for rats >2.02 mg/l air.</p> <p>Dermal : <u>LD₅₀</u> for rats >5050 mg/kg</p> <p>Skin irritation: Mild skin irritant</p> <p>Eye irritation : Mild eye irritant</p> <p>Sensitization : May cause sensitization on laboratory animals (guinea pigs).</p>	
12) Ecological Information Based on Technical Active Ingredient:	
<p>Bees <u>LD₅₀</u> (oral and contact) >110 µg/bee.</p> <p>Birds : Acute oral <u>LD₅₀</u> for mallard ducks and bobwhite quail >2150 mg/kg. Dietary <u>LC₅₀</u> (8 d) for bobwhite quail and mallard ducks >10 000 mg/kg.</p> <p>Fish : <u>LC₅₀</u> (96 h) for rainbow trout 3.9, carp 4.9, bluegill sunfish 10 mg/l.</p> <p>Daphnia : <u>LC₅₀</u> (48 h) 25 mg/l.</p> <p>Algae <u>EC₅₀</u> for <i>Scenedesmus subspicatus</i> 0.1 mg/l.</p> <p>Earth Worms: <u>LC₅₀</u> (14 d) for earthworms 140 mg/kg soil.</p> <p>Persistence Rapidly oxidised by rat liver microsomal oxygenases via dechlorination, O-demethylation and side-chain oxidation (<i>J. Agric. Food Chem.</i>, 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. <u>DT₅₀</u> in soil c. 20 d (field). <u>K_{oc}</u> 121–309.</p>	
13) Disposal Considerations:	
<p>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.</p> <p>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.</p>	
14) Transportation Information:	
<p>UN NUMBER: 3082 / 1993</p> <p>N:</p> <p>Xi:</p> <p>Road Transport ADR/ RID:</p> <p>Class: 9</p> <p>Packaging group: III</p> <p>Labelling no: 9</p> <p>Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, Liquid, N.O.S. (Metolachlor, Dichlormid). Flammable liquid.</p>	

Maritime Transport IMDG / IMO:

Class: 9

Packaging group: III

Labelling no: 9

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

Air Transport ICAO/IATA:

Class: 9

Packing group: III

Labelling no: 9

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

15) Regulatory Information:

Symbol(s): Xi: Irritant

N: Dangerous to the environment

R-phrase(s):

R43 May cause sensitization by skin contact.

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

S-phrase(s):

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.

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.

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