


Safety Data Sheet

CHLORMAX WP - Reg. No: L 7322 (Act No 36 of 1947)

Date of issue: 06/05/2002

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1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	CHLORMAX WP
Other means of identification:	Chlorimuron-ethyl 250 g/kg WP
UN number:	3077
Recommended use:	Herbicide
Restrictions on use:	None known
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:	ethyl 2-(4-chloro-6-methoxypyrimidin-2-ylcarbamoylsulfamoyl)benzoate
2) Classification of the substance / mixture:	
Classification of the product:	R20; R48; R50/53 Full text of R and S-phrases: see section 15.
Label elements:	Hazard statement: H410 - Very Toxic to aquatic life with long-lasting effects H371 - May cause damage to organs H332 - Harmful if inhaled  Signal Word: Warning Dangerous for the environment
Health effects: eyes:	May cause mild irritation.
Health effects: skin:	May cause mild irritation to skin. Not a skin irritant. Not a skin sensitiser.
Health effects: ingestion	Harmful if swallowed
Health effects: inhalation	Unlikely to cause harmful effects under normal conditions and use

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
Chlorimuron-ethyl	>50%	90982-32-4	618-690-2	H410 H371 H332	Xi- R51/53;H371; H332 N- H410

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. Seek medical assistance.

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.

Inhalation:

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.

Seek medical assistance.

Most important symptoms and effects, acute and delayed:

None known

Indication of immediate medical attention and special treatment needed: Advice to physician

No antidote is known. Treat symptomatically and supportively as and when needed.

5) Fire-Fighting Measures:

Suitable extinguishing media:

For small fires, use foam, carbon dioxide, dry powder or halon extinguisher. For large fires, use foam or water-fog; avoid the use of a water jet.

Unsuitable extinguishing media:

No information available

Special hazards arising from the substance or mixture:

Fire-fighting:	<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. 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>
Protective clothing:	<p>Full protective clothing and self-contained breathing apparatus</p>
6) Accidental Release Measures:	
<p>Personal precautions:</p> <p>Environmental precautions:</p> <p>Cleaning procedure:</p> <p>Disposal:</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>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:	
Handling:	<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>

Storage:	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. Avoid extreme temperatures.
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>Eye protection:</p> <p>Respiratory protection:</p> <p>Emergency eye wash:</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> <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>
9) Physical & Chemical Properties:	
<p>Form:</p> <p>Colour:</p> <p>Odour:</p> <p>Odour threshold:</p> <p>pH:</p> <p>Melting point / Freezing point</p> <p>Initial boiling point and boiling range</p> <p>Flash point:</p> <p>Evaporation rate:</p> <p>Flammability (solid, gas)</p> <p>Upper/ lower flammability or explosive limits:</p> <p>Vapour pressure:</p> <p>Vapour density:</p> <p>Relative density:</p> <p>Solubility(ies)</p> <p>Partition coefficient: n-octanol/water</p> <p>Auto-ignition temperature:</p> <p>Viscosity:</p>	<p>Wettable powder</p> <p>Off-white powder</p> <p>Slight organosulphorous odour</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>Not flammable</p> <p>No data available</p> <p>Not flammable</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>Miscible in water</p> <p>No data available</p> <p>No data available</p> <p>No data available</p>
10) Stability & Reactivity:	
<p>Reactivity:</p>	<p>Alkaline substances such as lime and Bordeaux mixture may reduce the activity of the product.</p>

Chemical 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..
Conditions to avoid:	Avoid extreme temperatures. Product should not be used if the soil or water has high pH values.
Incompatible materials:	Alkaline substances.

11) Toxicological Information:

Acute:

Oral LD50 > 5 000 mg/kg, rat

Dermal LD50 > 2 000 mg/kg, rat (Calculated)

Inhalation LC50 (4h): >5 mg/l air. (based on technical material)

Skin irritation : Not skin irritant, rabbit

Eye irritation : Mild irritant, rabbit (Reversible)

Sensitisation : Does not causes sensitization, guinea pigs.

Other :

Repeated dose toxicity

This statement has been derived from the properties of the active ingredient. Chlorimuron-ethyl did not cause any specific target organ toxicity in experimental animal studies.

Mutagenicity: This statement has been derived from the properties of the active ingredient. Tests revealed no mutagenic or genotoxic potential.

Carcinogenicity: The statement has been derived from the properties of the active. Tests revealed no indication of a carcinogenic effects in lifetime feeding studies in rats and mice.

Reproductive toxicity: No data available

Teratogenicity: The statement has been derived from the properties of the active. Tests revealed no indication of teratogenic effects

12) Ecological Information:

Information below based on active ingredient:

Bees: LD₅₀ (14 d) -Acute oral for mallard ducks >2510 mg/kg. Dietary LC₅₀ for mallard ducks and bobwhite quail >5620 ppm.

Birds: LD₅₀ (14 d) -Acute oral for mallard ducks >2510 mg/kg. Dietary LC₅₀ for mallard ducks and bobwhite quail >5620 ppm

Fish : LC₅₀ (96 h) for trout >1000, bluegill sunfish >100 mg/l. Daphnia : LC₅₀ (48 h) 1000 mg/l.

Algae :

Worms: LC₅₀ for earthworms (*Eisenia foetida*) >4050 mg/kg.

Bees: Contact > 200 µg/bee; Oral > 100 µg/bee.

Other aquatic species:

Persistence: In soil, K_d >1.60 (pH 4.5, 5.6% o.m.), 0.28 (pH 5.8, 4.3% o.m.), <0.03 (pH 6.5, 2.1% o.m.), <0.03 (pH 6.6, 1.1% o.m.).

Bioaccumulative potential

Bioaccumulation: Chlorimuron-ethyl: Does not bioaccumulate.

Mobility in soil

Chlorimuron-ethyl: Low mobility in Keyport silt loam, intermediate mobility on Flanagan silt loam and Cecil Sandy Loam and high mobility on Woodstown Sandy loam.

Results of PBT and vPvB assessment

No data available

Other adverse effects:

Additional ecological information: No other effects to be mentioned.

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: 3077

N: Dangerous for the Environment

Road Transport ADR/ RID:

Class: 9

Packaging group: III

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Chlorimuron ethyl)

Maritime Transport IMDG / IMO:

Marine Pollutant: Yes

Class: 9

Packaging group: III

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Chlorimuron ethyl)

Air Transport ICAO/IATA:

Class: 9

Packing group: III

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Chlorimuron ethyl)

15) Regulatory Information:

Labelling according to EC directives:

Hazardous components which must be listed on the label: Chlorimuron-ethyl

Symbols: Xi – Irritant

N - Dangerous for the environment

Risk – Phrase (s):

R51/53 -Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety – 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.
- S35 - This material and its container must be disposed of in a safe way.
- S46 - If swallowed, seek medical advice immediately and show this container or label.
- S57 - Use appropriate container to avoid environmental contamination.
- SP 1 - Do not contaminate water with the product or its container. (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads.

Hazard Statements

- H410 - Very Toxic to aquatic life with long-lasting effects
- H371 - May cause damage to organs
- H332 - Harmful if inhaled

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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