

Safety Data Sheet

PRISM 20WG- Reg. No: L 8131 (Act No 36 of 1947)

Date of issue: 11/04/2011

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1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	PRISM 20WG
Other means of identification:	Metsulfuron-methyl 200 g/kg WG
UN Number:	2588
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:	2-(4-methoxy-6- methyl-1,3,5-triazin-2-ylcarbamoylsulfamoyl)benzoate
2) Classification of the substance / mixture:	
Classification of the product:	Acute Tox. 5 H313 Skin Irrit. 3 H316 Eye Eye Dam. 1 H318 Acute Tox. 5 H333 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Full text of R-phrases; see section 15
Label elements:	Hazard statements: H412: harmful to aquatic life with long lasting effects. EUH401: To avoid risks to human health and the environment, comply with the instructions for use. Precautionary Statements (Disposal) P501: Dispose of content / container to hazardous or special waste collection point. Hazard Symbol (s):  Signal Word: WARNING

Health effects: eyes:	May cause irritation
Health effects: skin:	May cause irritation.
Health effects: ingestion	May be harmful. Product is not likely to be hazardous when ingested.
Health effects: inhalation	May 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
Metsulfuron-methyl	20%	74223-64-6		Acute Tox. 5 H313 Skin Irrit. 3 H316 Eye Eye Dam. 1 H318 Acute Tox. 5 H333 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	N; R50-53

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:	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. Do not rub skin. Seek medical assistance should irritation persist.
Ingestion:	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting unless told to so by poison control centre or doctor. A glass of water may be given to sip. For advice, contact the National Poisons Centre. Seek medical assistance immediately.
Inhalation:	Remove patient to fresh air. 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:	Not known
Indication of immediate medical attention and special treatment needed: Advice to physician	Treat symptomatically and supportively. Administer aminophylline (0.25 – 0.5 g) slowly, intravenously. Administer morphine in small dosages (5 –10 mg) slowly, intravenously to ally and promote deeper respiration. Children's dosage 0.1 – 0.2 mg/kg. Epinephrine, atropine and expectorants are not generally helpful and may complicate treatment.

5) Fire-Fighting Measures:

Suitable extinguishing media:	Extinguish fire with foam, dry powder, carbon dioxide or water spray.
Unsuitable extinguishing media:	Water jet, due to contamination risk.
Special hazards arising from the substance or mixture:	Not a fire or explosion hazard. Extinguish fire with foam, water spray, dry powder, carbon dioxide (CO ₂). Fine dust

	dispersed in air (particularly in confined spaces) may ignite if exposed to high temperature ignition source.
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.</p> <p>Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal.</p> <p>Generating poisonous and corrosive fumes. Keep upwind. Avoid inhaling hazardous vapours and fumes from burning materials. 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. (on 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.</p> <p>Do not scatter the material. Water can be used to cool containers. Dispose of extinguishing agent and spillage in a safe way at a later stage.</p> <p>Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. Contain run-off water with, for example, temporary earth barriers.</p> <p>Generating poisonous and corrosive fumes</p>
Protective clothing:	Full protective clothing and self-contained breathing apparatus.
6) Accidental Release Measures:	
Personal precautions:	<p>Wear appropriate safety clothing and eye/face protection. Do not breathe in spray or fumes.</p> <p>For personal protection see Section 8.</p>
Environmental precautions:	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.
Cleaning procedure:	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
Disposal:	<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>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. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.</p>
<p>Storage:</p>	<p>Store in original container tightly closed and in a locked, dry, cool, well-ventilated area away from foodstuffs, fertilisers and seeds. Avoid extreme heat and cold.</p> <p>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> <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:	

Form: Colour: Odour: Odour threshold: pH: Melting point / Freezing point Initial boiling point and boiling range Flash point: Evaporation rate: Flammability (solid, gas) Upper/ lower flammability or explosive limits: Vapour pressure: Vapour density: Relative density: Solubility(ies) Partition coefficient: n-octanol/water Auto-ignition temperature: Viscosity:	Granules Off-white Characteristic No data available No data available No data available No data available Does not flash N/A No data available No data available No data available No data available No data available N/A Dispersible in water. No data available No data available No data available
10) Stability & Reactivity:	
Reactivity: Chemical stability: Hazardous decomposition product(s): Conditions to avoid: Incompatible materials:	No hazardous reactions if stored and handled as indicated / prescribed. No decomposition if stored (up to 2 years) and applied as directed. Store in original containers and keep tightly closed. Store between -5 °C and 35 °C. None known None known. None known.
11) Toxicological Information:	
Acute: Oral LD50 : >5 000 mg/kg, rat. Dermal LD50 : >2 000 mg/kg Inhalation LC50 (4h): > 5.7 mg/L, mouse (Very low toxicity) Skin irritation : Slight irritant, rabbit. Eye irritation : Slight irritant, rabbit. Sensitization : Does not cause sensitization skin contact, (guinea pig). Other : Repeated dose toxicity: No data available Mutagenicity: No data available Carcinogenicity: No data available Reproductive toxicity: No data available Teratogenicity: No data available	
12) Ecological Information:	

Information below based on active ingredient: METSULFURON-METHYL

Bees: Not hazardous to bees; LD₅₀ > 25µg/bee.

Birds: LD₅₀ for Mallard duck and bobwhite quail) > 5620 mg/kg

Fish: LC₅₀ (96 h) for rainbow trout and Bluegill sunfish > 150 mg/L. Daphia LC₅₀ (48 h) > 150 mg/L

Algae: NOEC for green algae 100mg/l

Other aquatic species. NOEC for lemna gibba 0.16µg/l

Environmental fate:

Persistence and degradation:

Animals In mammals, following oral administration, metsulfuron-methyl is excreted predominantly unchanged. The methoxycarbonyl and sulfonyleurea groups are only partly degraded, by O-demethylation and hydroxylation. Plants In plants, undergoes complete degradation within a few days, by hydrolysis and conjugation. In addition to the hydroxymethyl analogue, other metabolites identified include methyl 2- (aminosulfonyl) benzoate and 2-(aminosulfonyl) benzoic acid. Rapidly metabolised within cereal plants. Soil/Environment In soil, metsulfuron-methyl is broken down both by chemical hydrolysis and by microbial degradation. DT50 varies from 1 to 5 w, with breakdown being more rapid at lower soil pH, at higher temperatures, and at higher levels of soil moisture. Koc 35(pH 7).

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 NO 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: 2588

Road Transport ADR/ RID:

Class: 6.1

Packaging group: III

Labelling no: N, Xi

Shipping name: PESTICIDES, SOLID, TOXIC, N.O.S. (METSULFURON-METHYL)

Maritime Transport IMDG / IMO:

Marine pollutant: yes

Class: 6.1

Packaging group: III

Labelling no: N, Xi

Shipping name: PESTICIDES, SOLID, TOXIC, N.O.S. (METSULFURON-METHYL)

Air Transport IATA:

Class: 6.1

Packaging group: III

Labelling no: N, Xi

Shipping name: PESTICIDES, SOLID, TOXIC, N.O.S. (METSULFURON-METHYL)

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

15) Regulatory Information:

Contains: METSULFURON-METHYL

Symbols: Xi: Irritant

N: Environmentally hazardous substance

Risk – Phrase (s):

R36/37/38 - Irritating eyes, respiratory system and skin.

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):

S1/2 - Keep under lock and key and out of the reach of children.

S7/9 - Keep container tightly closed and in a well-ventilated place.

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

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

S23 - Do not breathe fumes/vapour/spray.

S24/25 - Avoid contact with skin and eyes.

S28 - After contact with skin, wash immediately with plenty of water and non-abrasive soap.

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

S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

S46 - If swallowed, seek medical advice immediately and show this container.

S60 - This material and its container must be disposed of as hazardous waste.

S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

Hazard -Phrase (s)

H335 - May cause respiratory irritation.

H400 - Very toxic to aquatic life.

H410 - Very 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.

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