

Safety Data Sheet

PREMIERE- Reg. No: L 9116 (Act No 36 of 1947) Reg. No: N -AR 1630

Date of issue: 04/03/2013

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1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	PREMIERE
Other means of identification:	Mesotrione 480g/L SC
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:	2-(4-mesyl-2-nitrobenzoyl)cyclohexane-1,3-dione
2) Classification of the substance / mixture:	
Classification of the product:	Acute Tox. 2 H373 Full text of R-phrases; see section 15
Label elements:	<p>Hazard statements: H373: May cause damage to organs (Kidney) through prolonged or repeated exposure.</p> <p>Precautionary Statements (Prevention) P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.</p> <p>(Response) P314 Get medical advice/ attention if you feel unwell.</p> <p>(Disposal) P501: Dispose of content / container to hazardous or special waste collection point.</p> <p>Hazard Symbol (s):</p>  <p>Signal Word: WARNING</p>

Health effects: eyes:	May cause mild eye irritation												
Health effects: skin:	Unlikely to cause skin irritation												
Health effects: ingestion	May cause irritation												
Health effects: inhalation	Harmful if swallowed												
Health effects: Other													
3) COMPOSITION / INFORMATION ON INGREDIENTS:													
Mixture:													
<table border="1"> <thead> <tr> <th>Chemical name</th> <th>Composition</th> <th>CAS No.</th> <th>EC No.</th> <th>Classification according to Regulation EC 1272/2008 (CLP)</th> <th>Classification according to 67/548/EEC</th> </tr> </thead> <tbody> <tr> <td>Mesotrione</td> <td>48%</td> <td>104206-82-8</td> <td></td> <td>Acute Tox. 2 H373</td> <td>N; R51-53</td> </tr> </tbody> </table>		Chemical name	Composition	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)	Classification according to 67/548/EEC	Mesotrione	48%	104206-82-8		Acute Tox. 2 H373	N; R51-53
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Full text of R- and S-phrases: see section 15.													
4) First Aid Measures:													
Eye contact: Skin contact: Ingestion: Inhalation: Most important symptoms and effects, acute and delayed: Indication of immediate medical attention and special treatment needed: Advice to physician	<p>Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance.</p> <p>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.</p> <p>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.</p> <p>Remove patient to fresh air. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance.</p> <p>Not known</p> <p>Treat symptomatically. Gastric lavage and use of activated charcoal can be used if deemed necessary.</p>												
5) Fire-Fighting Measures:													
Suitable extinguishing media: Unsuitable extinguishing media: Special hazards arising from the substance or mixture:	<p>Foam, carbon dioxide or dry chemical powder and water fog for lager fires.</p> <p>Water jet, due to contamination risk.</p> <p>Not a fire or explosion hazard. Extinguish fire with foam, water spray, dry powder, carbon dioxide (CO2). Fine dust dispersed in air (particularly in confined spaces) may ignite if exposed to high temperature ignition source.</p>												
Fire-fighting:	Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire.												

	<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>
Protective clothing:	Full protective clothing and self-contained breathing apparatus.
6) Accidental Release Measures:	
<p>Personal precautions:</p> <p>Environmental precautions:</p> <p>Cleaning procedure:</p> <p>Disposal:</p>	<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> <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>Storage:</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>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>
<p>8) Exposure Control / Personal Protection:</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><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>
<p>9) Physical & Chemical Properties:</p>	
<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>Liquid</p> <p>Brown</p> <p>Characteristic</p> <p>No data available</p> <p>±4.5</p> <p>No data available</p> <p>No data available</p> <p>Does not flash</p> <p>N/A</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>±1.08</p> <p>Soluble in water.</p> <p>No data available</p> <p>405°C (Mesotrione)</p>
<p>10) Stability & Reactivity:</p>	
<p>Reactivity:</p>	<p>No hazardous reactions if stored and handled as indicated /</p>

Chemical stability:	prescribed. Stable under normal use and storage conditions. When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Spray solutions should not be mixed, stored or applied in containers other than plastic, plastic-lined steel, stainless steel or fiberglass.
Hazardous decomposition product(s):	Can decompose at high temperatures forming toxic gases.
Conditions to avoid:	None known. No decomposition if used as directed.
Incompatible materials:	None known.

11) Toxicological Information:

Acute:

Oral LD50 : >5 000 mg/kg, rat.

Dermal LD50 : >2 000 mg/kg

Inhalation LC50 (4h): > 5.0 mg/L, rat (Very low toxicity)

Skin irritation : Slight irritant, rabbit.

Eye irritation : Mild irritant, rabbit.

Sensitization : Does not cause sensitization by 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: MESOTRIONE

Bees: LD₅₀ (oral) >11 µg/bee; Contact >9.1 µg/bee. Bees LC₅₀/EC₅₀ (Contact) > 100 µg/bee.

Birds: LD₅₀ for Bobwhite quail >2000 mg/kg. Dietary LC₅₀ Mallard ducks >5200 mg/kg.

Fish: LC₅₀ (96 h) for rainbow trout and Bluegill sunfish > 120 mg/L. Daphnia LC₅₀ (48 h) > 900 mg/L

Algae: LC₅₀/EC₅₀ (120h,static) Selenastrum capricornutum 3.5 mg/L.

Worms : NOEL ≥1000 mg/kg.

Other aquatic species.

Environmental fate:

Persistence and degradation:

The active ingredient has low mobility in soil and low bioaccumulation potential.

Mobility in soil: Mesotrione has medium to high mobility in soil

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

Labelling no: N

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MESOTRIONE)

Maritime Transport IMDG / IMO:

Marine pollutant: yes

Class: 9

Packaging group: III

Labelling no: N

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MESOTRIONE)

Air Transport IATA:

Class: 9

Packaging group: III

Labelling no: N

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MESOTRIONE)

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

15) Regulatory Information:

Contains: MESOTRIONE

Symbols:

N: Environmentally hazardous substance

Risk – Phrase (s):

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

R43 - May cause sensitisation by skin contact.

R51/53 - Toxic to aquatic organisms may cause long term 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.

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

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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