

## Safety Data Sheet

### Botrynil L 8271 (Act 36 of 1947)

Date of issue: 30/07/2010

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1) PRODUCT AND COMPANY IDENTIFICATION	
Product name:	BOTRYNIL
Other means of identification:	Pyrimethanil 400 g/L SC
Recommended use:	Fungicide
Restrictions on use:	Agriculture
UN No:	NA
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 GRIFFON POISON CENTRE: 082 446 8946.
Chemical Name:	4,6-dimethyl-N-phenyl-2-pyrimidinamine
2) Hazards Identification:	
Product Classification:	N; R51/53 Full text of phrases; see section 15
Label Elements:	Hazard symbols: N – Dangerous for the environment  
Health effects: eyes:	May cause irritation.
Health effects: skin:	Mild cause irritation.
Health effects: ingestion	May cause irritation.
Health effects: inhalation	May cause irritaion
3) Composition Details:	
COMPOSITION	Pyrimethanil 400 g/lt
4) First Aid Measures:	

<p><b>Inhalation:</b></p> <p><b>Skin contact:</b></p> <p><b>Eye contact:</b></p> <p><b>Ingestion</b></p> <p><b>Advice to physician:</b></p>	<p>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 if at all worried.</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>Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance.</p> <p>Wash out mouth with water if the patient is conscious. Never give anything by mouth to an unconscious person. Do not induce vomiting. Keep patient at rest and seek medical advice as above</p> <p>No symptoms, local or systemic, have been reported with this product. For local contamination, treatment should be symptomatic after decontamination. In case of skin or eye contamination, treat as instructed under "First Aid". For systemic poisoning initial treatment should be symptomatic and supportive. Anticonvulsant therapy is not appropriate. There is no antidote for poisoning with pyrimethanil.</p>
<p><b>5) Fire-Fighting Measures:</b></p>	
<p><b>Flash point:</b></p> <p><b>Extinguishing Media:</b></p> <p><b>Fire Fighting:</b></p> <p><b>Protective clothing:</b></p>	<p>Not flammable</p> <p>As this product is not flammable, use extinguishing agent suitable for the surrounding fire.</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 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. Contain firefighting water by bunding the area with sand or earth to prevent it from entering any bodies of 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>Occupational spill:</b></p>	<p>Avoid contact with skin and eyes. For personal protection see Section 8. Do not breathe in spray or fumes.</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>Avoid contact with the spilled material or contaminated surfaces. When dealing with spills do not eat, drink or smoke and wear personal protective clothing and equipment as described in the PERSONAL PROTECTION section above. . Prevent spilled material from entering drains or watercourses.</p>

	Contain spill and absorb with earth, sand, clay, or other absorbent material. Collect and store in properly labelled, sealed drums for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.
<b>7) Handling &amp; Storage:</b>	
<b>Handling:</b>	Avoid skin and eye contact and inhalation of spray mist.
<b>Storage:</b>	Store in original container tightly closed and in a locked, dry, cool, well-ventilated area away from foodstuffs, fertilisers and seeds and animals. Do not store for prolonged periods in direct sunlight. Store below 28 °C. Protect from frost Keep away from children or uninformed persons.  After use and before eating, drinking, smoking or using the toilet, wash hands, arms and face thoroughly with soap and water. After each days use wash gloves, goggles and contaminated clothing.
<b>8) Exposure Control / Personal Protection:</b>	
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.	
<b>Occupational Exposure Limits:</b>	Not available
<b>Engineering Controls:</b>	Not available
<b><u>PERSONAL PROTECTIVE EQUIPMENT:</u></b>	
<b>Clothing:</b>	Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance. Such as cotton overalls buttoned to the neck and wrist.
<b>Respiratory:</b>	Respiratory protection is not normally required. If aerosol or mist is formed and airborne concentrations are likely to exceed the exposure standard above, an approved respirator should be worn.
<b>Gloves:</b>	Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance (e.g. PVC)
<b>Eye protection:</b>	Safety goggles with side shields.
<b>Emergency eye wash:</b>	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.
<b>9) Physical &amp; Chemical Properties:</b>	
<b>Form:</b>	Liquid
<b>Colour:</b>	Beige
<b>Odour:</b>	Nearly odourless
<b>Solubility:</b>	Forms a suspension
<b>pH:</b>	7.62 at 20 °C (100 g/L suspension)
<b>Odour threshold:</b>	Not available
<b>Melting point / Freezing point</b>	96.3 (Pyrimethanil)
<b>Initial boiling point and boiling range</b>	Not available
<b>Flash point:</b>	Not flammable
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid, gas)</b>	Not flammable
<b>Upper/ lower flammability or explosive limits:</b>	Not available
<b>Vapour pressure:</b>	2.2 mPa, 25°C (Pyrimethanil)

<b>Vapour density:</b>	Not available
<b>Relative density:</b>	1.08 g/L
<b>Partition coefficient: n-octanol/water</b>	Log K <sub>ow</sub> 2.84, pH 6.1 (Pyrimethanil)
<b>Auto-ignition temperature:</b>	Not available
<b>Viscosity:</b>	799 cPs, 25°C
<b>10) Stability &amp; Reactivity:</b>	
<b>Stability:</b>	No decomposition if stored (up to 2 years) and applied as directed. Store in the closed, original container in a cool, well-ventilated area. Store below 28°C. Keep out of reach of children.
<b>Conditions to avoid:</b>	Avoid prolonged periods of storage in direct sunlight.
<b>Incompatible materials:</b>	Oxidizing agents
<b>Hazardous decomposition product(s):</b>	Toxic fumes may be given off if heated.
<b>11) Toxicological Information:</b>	
<p>Oral LD50 (mg/kg) &gt; 5000      Species Rat  Dermal LD50 (mg/kg) &gt; 4000      Species: Rat  Inhalation LC50 (mg/L) &gt; 1.26*      Species: Rat  Eye irritation: Non irritating      Species: Rabbit    Skin  irritation: Reversibly irritating      Species: Rabbit  Sensitisation: Non sensitising      Species: Guinea pig</p>	
<b>12) Ecological Information:</b>	
<p>Pyrimethanil: Toxicity to aquatic organisms. Low toxicity to birds, bees, earthworms and a range of beneficials. <i>Fish toxicity:</i>  LC50 (96 h) for rainbow trout 10.6 mg/L  LC50 (96 h) for mirror carp 35.4 mg/L <i>Bird toxicity:</i>  Acute oral LD50 for bobwhite quail &gt; 2000 mg/kg Acute  oral LD50 for mallard duck &gt; 2000 mg/kg <i>Other:</i>  EC50 (48 h) for <i>Daphnia magna</i> 2.9 mg/L  EC50 (96 h) for algae, <i>Selenastrum capricornutum</i>, 1.2 mg/L n-Octanol water  partition co-efficient: log Po/w 2.84</p> <p>Persistence and degradability: DT<sub>50</sub> in laboratory studies 27–82 d; field studies indicate rapid degradation, DT<sub>50</sub> 7–54 d; 2-amino-4,6-dimethylpyrimidine is the main soil metabolite. K<sub>oc</sub> 265–751. Low potential for leaching to groundwater; field studies show minimal movement of pyrimethanil into deeper soil layers. Pyrimethanil disappears rapidly from surface water and moderately adsorbs to the sediment, from which it is further degraded.</p>	
<b>13) Disposal Considerations:</b>	
<p><b>Waste Disposal:</b> 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> Refer to the product label for instructions.  Container Refilling and Disposal:  If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product.  DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.  Do not transport if this container is damaged or leaking.</p>	
<b>14) Transportation Information:</b>	
<p><b>IMO hazardous description:</b> UN  Number: Not applicable  Dangerous Goods Class and Subsidiary Risk: Not classified as dangerous goods for transport by road or rail Hazchem  Code: Not applicable  Proper Shipping Name: Not applicable  Packing Group: Not applicable  EPG: Not applicable  Poisons Schedule Number: Exempt from scheduling</p>	
<b>15) Regulatory Information:</b>	

Not classified as dangerous goods

**Contains:** Pyrimethanil

**Symbol(s):** Xi – Irritant

N – Dangerous for the

environment

**R-phrases(s):** R38 – Irritating to skin.

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

environment.

**S-phrases(s):** S2 – Keep out of reach of children.

S7 – Keep container tightly closed.

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

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

#### **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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