



Safety Data Sheet

PLUMETT - Reg. No: L 9860 (Act No 36 of 1947) Namibian Reg. No. N-AR 2141

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1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	PLUMETT
Other means of identification:	Chlorfenapyr 360 g/L SC
UN number:	3082
Recommended use:	Insecticide
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:	4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5trifluoromethylpyrrole-3-carbonitrile
2) Classification of the substance / mixture:	
Classification of the product:	Xn N Xi R28 R36/38 R50/53 R55 R53 Full text of symbols and R-phrases: see section 15.
Label elements:	  Signal Word: Danger H302 H331 H400 H4140 P101 P102

	P103 P271 P261 P270 P264 P311 P304 + P340 P301 + P312 P330 P391 P403 + P233 P405 P501
Health effects: eyes:	May cause mild irritation.
Health effects: skin:	Repeated or prolonged exposure may cause irritation.
Health effects: ingestion	Toxic if swallowed, may cause headache, vomiting and nausea.
Health effects: inhalation	May cause irritation.
Health effects: Other	No data available

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
Chlorfenapyr	36%	122453-73-0	602-782-4	Acute Tox. 3 (Inhalation – dust) Acute Tox. 4 (oral) Aquatic Acute 1. Aquatic Chronic 1 H331 H302 H400 H410	Xn N Xi R23 R50/53 R22

Full text of R- and S-phrases: see section 15.

4) First Aid Measures:

Eye contact:	Flush eyes with plenty of clean water for at least 20 minutes while holding the eyelids open. Seek medical assistance.
Skin contact:	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with a non-abrasive soap and plenty of water for at least 15 minutes. Do not re-use clothing until it is thoroughly cleaned or laundered. Seek medical assistance if irritation occurs.
Ingestion:	Never give anything by mouth to an unconscious person. Do not induce vomiting unless instructed to by a poison control center or medical doctor. Have the patient sip a glass of water if they are able to. For advice, contact the National Poisons Centre. Seek medical assistance immediately.
Inhalation:	Remove patient to fresh air. Loosen clothing around neck. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear, apply resuscitation and seek medical assistance immediately . Seek medical assistance if irritation persists.
Most important symptoms and effects, acute and delayed:	None known No specific antidote known. Treat symptomatically.

Indication of immediate medical attention and special treatment needed: Advice to physician	
5) Fire-Fighting Measures:	
Suitable extinguishing media:	Fine water spray, foam, carbon dioxide, dry chemical powder.
Unsuitable extinguishing media:	Avoid the use of a solid water stream as this may cause spreading.
Special hazards arising from the substance or mixture:	None known
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 the fire from the maximum distance and use unmanned hose holders or monitor nozzles. 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 it must be contained for later disposal. Use as little water as possible. Dyke the fire control water for later disposal. Do not scatter the material. Avoid pollution of waterways. Avoid the accumulation of polluted runoff from the site.</p> <p>Decontaminate all emergency personnel with soap and water before they leave the fire area.</p>
Protective clothing:	Full protective clothing and self-contained breathing apparatus
6) Accidental Release Measures:	
Personal precautions:	Avoid contact with skin and eyes. Avoid inhalation of the spray or fumes. For personal protection see Section 8.
Environmental precautions:	<p>Do not allow this product to enter drains or watercourses. If spill does enter waterways contact the local authority. 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. Considered a marine pollutant..</p>
Cleaning procedure:	<p>Do not touch any spilled material. Stop the leakage if it is safe to do so. Wear protective clothing. Clear area of unprotected personnel. Contain and absorb liquid spills with an inert material (such as earth or sand or other suitable non-combustible absorbent material). Remove by scoop or vacuum. Use an approved industrial vacuum cleaner for removal and place into clean, dry, marked and sealable waste containers. If the potential for fire exists, blanket the spill with foam as a precautionary measure. If the product comes into contact with water, contain the contaminated water for later disposal. Prevent the material from spreading by damming it in with absorptive material. Do not flush the spilled material into drains. Keep all spectators away and upwind.</p> <p>Decontaminate the spill area, tools and equipment with a suitable solution (such as organic solvent, detergent bleach or caustic). Add the solution to the drums already collected. Label the drums appropriately and dispose in a safe and approved manner in accordance with local regulations. Open burning or dumping or dumping of this material is prohibited.</p> <p>Do not allow this product to enter drains or watercourses. If spill does enter waterways contact the local authority. 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</p>

<p>Disposal:</p>	<p>disposed of together with the waste chemical. Considered a marine pollutant.</p> <p>Waste Disposal:</p> <p>In accordance with local and national regulations. 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. Product waste should be burned in a high temperature incinerator (> 1000 °C) with effluent gas scrubbing. Never pour untreated waste or surplus products into public sewers or where there is any danger of running-off or seepage into water systems. Comply with local legislation applying to waste disposal.</p> <p>Container Disposal: Refer to the product label for instructions.</p> <p>Emptied containers retain vapour and product residues, therefore observe all labelled safeguards until the container is destroyed. Combustible containers should be disposed of in pesticide incinerators. Non-combustible containers must first be triple-rinsed with water, then punctured and transported to a scrap metal facility for recycling or disposal.</p> <p>If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE.</p> <p>Do not transport if this container is damaged or leaking.</p>
<p>7) Handling & Storage:</p>	
<p>Handling:</p> <p>Storage:</p>	<p>Avoid skin and eye contact and inhalation of spray mist and vapour.</p> <p>Harmful if swallowed or inhaled.</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. Use with adequate ventilation. Remove clothes immediately if the pesticide gets inside. Then wash the affected area thoroughly with water and a non-abrasive soap and put on clean clothing. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water that is used to clean equipment must be disposed of correctly in order to avoid contamination.</p> <p>Store under lock and key in the original, correctly labelled, tightly closed container, in a locked, dry, cool area away from foodstuffs, fertilisers and seeds.</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>Consult supplier to confirm that the equipment is suitable.</p> <p>Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.</p>

Gloves:	Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance
Eye protection:	The use of safety goggles with side shields is recommended when the respirator does not provide eye protection.
Respiratory protection:	Wear an approved respirator for protection from mists of pesticides if ventilation is inadequate. The limitations of the respirator use as specified by the approving agency and the manufacturer must be observed. For maximum protection, wear a supplied air, full-face respirator. Airlined hood, or fullface self-contained breathing apparatus.
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
Colour:	Off-white – Cream White
Odour:	Characteristic odour
Odour threshold:	No data available
pH:	7.1
Melting point / Freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point:	Moderately flammable
Evaporation rate:	No data available
Flammability (solid, gas)	No data available
Upper/ lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Solubility(ies)	Suspends in water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature:	No data available
Viscosity:	No data available
10) Stability & Reactivity:	
Reactivity:	No data available.
Chemical stability:	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
Hazardous decomposition product(s):	No data available
Conditions to avoid:	No data available.
Incompatible materials:	No data available

11) Toxicological Information:

Acute:

Oral LD50 441 mg/kg (male), 1152 mg/kg (female) rat.

Dermal LD50 >2000mg/kg, rabbit

Inhalation LC50 (4h): 1.9 mg/L, rat

Skin irritation : Not an irritant, rabbit

Eye irritation : Moderate irritant, rabbit

Sensitisation : Did not cause sensitization on laboratory animals, guinea pigs.

Other : No data available.

12) Ecological Information:

Information below based on active ingredient:

Bees: (oral) 0.2 µg/bee.

Birds: Acute oral LD₅₀ for mallard ducks 10 mg/kg; bobwhite quail 34 mg/kg. LC₅₀ (8 d) for bobwhite quail 132 ppm and mallard ducks 9.4 ppm.

Fish : LC₅₀ (48 h) for carp 500 µg/l. LC₅₀ (96 h) for rainbow trout 7.44, bluegill sunfish 11.6 µg/l.

Algae : EC₅₀ (120 h) for *Selenastrum capricornutum* 132 ppb.

Worms: NOEC (14 d) for *Eisenia foetida* 8.4 mg/kg.

Other aquatic species: Toxic to *Daphnia magna*, LC50 (48 h) 0.53 µg/l.

13) Disposal Considerations:

Waste Disposal: In accordance with local and national regulations. Open dumping or burning of this material is prohibited. Any waste resulting from the use of this product cannot be re-used and re-processed. **Never** pour any untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. 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 chemicals waste disposal facility.

Container Disposal

Triple rinse containers.

Refer to the product label for instructions.

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.

The container must be destroyed by perforation, flattening and burying in an approved dumpsite. Containers must be disposed of in accordance with the relevant local legislation. Prevent contamination of food, feedstuffs as well as eating utensils.

14) Transportation Information:

UN Number: 3082

Road transport ADR/RID

Class: 9

Packaging group: III

Labelling no: 9

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

Air transport: ICAO / IATA

Class: 9

Packaging group: III

Labelling no: 9

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

Maritime transport: IMDG

Class: 9

Packaging group: III

Labelling no: 9

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

Marine pollutant

15) Regulatory Information:

Symbols: Xn - Harmful

N - Dangerous for the environment

Xi - Irritant

Risk – Phrase:

R22 - Harmful if swallowed

R23 - Toxic by inhalation

R28 - Very toxic if swallowed

R36/38 - Irritating to eyes and skin.

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

R55 - Toxic to fauna.

R53 - Toxic to bees.

Safety – Phrase:

S1/2 - Keep locked up and out of reach of children.

S 7 - Keep container tightly closed.

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

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

S22 - Do not breathe vapour.

S24/25 - Avoid contact with the skin and eyes.

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

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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

S57 - Use appropriate containment to avoid environmental contamination.

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 Statements

H302 - Harmful if swallowed

H331 - Toxic if inhaled

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

Precautionary Statements (Prevention)

P271 - Use only outdoors or in a well-ventilated area.

P261 - Avoid breathing mist.

P270 - Do not eat, drink or smoke when using the product.

P264 - Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response)

P311 - Call a POISON CENTER or doctor / physician.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell.

P330 - Rinse mouth

P391 - Collect spillage

Precautionary Statements (Storage)

P403 + P233 – Store in a well-ventilated place. Keep container tightly closed. Store locked up.

P405 - Store lock up.

P501 - Dispose of contents / container to hazardous or special waste collection point.

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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