


## Safety Data Sheet

### CLOUT XTRA - Reg. No: L10466 (Act No 36 of 1947)

Date of issue: 02/06/2016

1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	CLOUT XTRA
Other means of identification Recommended use:	Carbendazim 125 g/L, Flusilazole 250 g/L SC Fungicide
Restrictions on use:	Agriculture
Distributed by:	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 0866901386 MOBILE: 0834006056 <a href="http://www.agritech.co.za">www.agritech.co.za</a>
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:	Carbendazim: methyl benzimidazol-2-ylcarbamate Flusilazole: 1-[[bis(4-fluorophenyl)(methyl)silyl]methyl]-1H-1,2,4-triazole, bis(4-fluorophenyl)(methyl)(1H-1,2,4-triazol-1-ylmethyl)silane
2) Classification of the substance / mixture:	
Classification of the product is based on the co-formulants listed in section 3.	T, N; R22, R36, R38, R40, R41, R46, R50/53, R60, R61 Full text of R-phrases: see section 15.
Label elements:	Hazard symbols: T – Toxic N – Dangerous for the environment  Health Hazard    Signal Word: Toxic
Health effects: eyes:	Can cause damage to eyes
Health effects: skin:	May cause mild to moderate irritation after prolonged contact. Does not cause sensitization.
Health effects: ingestion	Harmful if swallowed.
Health effects: inhalation	Harmful if inhaled
Health effects: carcinogenicity	Limited evidence of a carcinogenic effect
Other health effects:	May cause heritable genetic damage May impair fertility May cause harm to the unborn child
3) COMPOSITION / INFORMATION ON INGREDIENTS:	

Mixture:

Chemical name	Composition (g/L)	CAS No.	EC No.	Classification
Carbendazim	250	10605-21-7	234-232-0	Mut. Cat. 2; R46 Repr.Cat.2; R60-61 N; R50-53
Flusilazole	125	85509-19-9		Carc.Cat.3; R40 Repr.Cat.2; R61 Xn; R22; N; R51-53
Monoethylene Glycol	42.60	107-21-1		Acute Tox. 4; H302

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

#### 4) First Aid Measures:

**Eye contact:**

Immediately flush eyes with plenty of water. Remove contact lenses, if worn, and flush eyes with water for at least 20 minutes holding eyelids open. Seek medical assistance immediately.

**Skin contact:**

Remove contaminated clothing, leather items and shoes and gently wipe off excess chemical. Wash affected areas thoroughly with non-abrasive soap and water. Do not rub the skin. Seek medical attention if irritation persists. Wash contaminated clothing before re-use.

**Ingestion:**

If swallowed **DO NOT** induce vomiting unless advised to do so by a medical practitioner. Never give anything via mouth to an unconscious person. **Seek medical advice immediately.** If the victim is conscious rinse mouth with water and let them drink 1-2 glasses of water.

**Inhalation:**

Remove victim to well ventilated area and loosen clothing around the neck. Keep victim warm and at rest. Qualified personnel should administer oxygen if breathing is difficult. Immediately seek medical attention.

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

Symptomatic treatment and supportive therapy as indicated, no known specific antidote.

#### 5) Fire-Fighting Measures:

**Suitable extinguishing media:**

Water spray, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>), dry powder.

**Unsuitable extinguishing media:**

Water jet, due to contamination/spreading risk.

**Special hazards arising from the substance or mixture:**

Hazardous decomposition products form during fire conditions, such as carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>)

**Fire-fighting:**

Remove spectators from surrounding area. Use a recommended extinguishing agent. Fight fire from a maximum distance using unmanned hose holders or monitor nozzles. Remove container from affected area if possible without risk. Dike extinguishing media with sand or earth for later disposal, do not allow to reach water or sewer systems. Dispose of debris and contaminated extinguishing water according to regulations. Water can be used to cool unaffected containers but must be contained for later disposal. Avoid pollution of waterways and ground water.

Fire may produce irritating or poisonous vapours, mists or other products of combustion. Avoid breathing fumes.

<b>Protective clothing:</b>	Fire-fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.
<b>6) Accidental Release Measures:</b>	
<p><b>Personal precautions:</b></p> <p><b>Environmental precautions:</b></p> <p><b>Cleaning procedure:</b></p> <p><b>Disposal:</b></p>	<p>Control access to area. Take precautionary action against static discharges. 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>Do not eat, drink or smoke during the clean-up process. Clear area of unprotected personnel and animals. Wear protective gear as mentioned in section 8 below. Contain the spill and stop leak provided it is safe to do so. Soak up minor spills with suitable absorbent, non-combustible material such as sand, sawdust, diatomaceous earth, etc. Shovel or sweep absorbed material and collect in a suitable container which can be labelled and sealed for disposal according to local regulations. Do not flush spilled material into drains or waterways. Should spilled product come into contact with water, dike water and dispose of together with spilled material. Clean contaminated areas and equipment thoroughly with water containing detergent and collect washings for disposal. For large spills, dike spill area and pump off product. Collect washings to avoid any contamination of surface and ground water, water supplies and drains. Deal with spillages immediately.</p> <p>Used absorbent material and washings should be stored in labelled, sealable containers until these can be disposed of according to local regulations. Open burning or dumping of this material is prohibited.</p>
<b>7) Handling &amp; Storage:</b>	
<p><b>Handling:</b></p> <p><b>Storage:</b></p>	<p>Avoid contact with eyes and skin. Do not breathe in fumes or spray. Ensure adequate ventilation. Suitable protective equipment should be used as a preventative measure during spraying and mixing. Do not eat, drink, smoke or apply cosmetics while using. Before removing gloves, clean thoroughly with a non-abrasive soap and water. Wash hands thoroughly with non-abrasive soap and water after handling, and before eating, tobacco use, drinking, or using the toilet. Protective clothing should be removed immediately after use washed before reuse. Do not apply directly to areas where surface water is present or to intertidal areas below the mean high water mark. Dispose of water used to clean equipment suitably to avoid contamination of water sources.</p> <p>Keep away from heat and sources of ignition. Avoid static electrical discharge.</p> <p>Store under lock and key in original container tightly closed and in a dry, cool, well-ventilated area. Store away from sources of ignition and away from foodstuffs, fertilisers and seeds. Keep away from children, uninformed persons and animals. Do not contaminate other pesticides, fertilisers, water, food or feed by storage or disposal. Local regulations should be complied with.</p>
<b>8) Exposure Control / Personal Protection:</b>	

<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><b>Occupational exposure limits:</b></p> <p><b>Engineering controls:</b></p> <p><b><u>PERSONAL PROTECTIVE EQUIPMENT:</u></b>  <b>Clothing:</b></p> <p><b>Gloves:</b></p> <p><b>Eye protection:</b></p> <p><b>Respiratory protection:</b></p> <p><b>Emergency eye wash:</b></p>	<p>Not available</p> <p>Ensure that electrical equipment is explosion-free and free from ignition sources.</p> <p>Employee must wear appropriate full protective (impervious) clothing, including rubber boots, to prevent prolonged skin exposure with this substance.</p> <p>Employee must wear appropriate chemical-resistant gloves, preferably PVC or nitrile gloves, to prevent prolonged skin contact with this substance.</p> <p>The use of safety goggles or full-face shield is recommended.</p> <p>Wear suitable respiratory equipment, especially during spraying, such as a face mask.</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><b>9) Physical &amp; Chemical Properties:</b></p>	
<p><b>Form:</b></p> <p><b>Colour:</b></p> <p><b>Odour:</b></p> <p><b>Odour threshold:</b></p> <p><b>pH:</b></p> <p><b>Melting point / Freezing point</b></p> <p><b>Initial boiling point and boiling range</b></p> <p><b>Flash point:</b></p> <p><b>Evaporation rate:</b></p> <p><b>Flammability (solid, gas)</b></p> <p><b>Upper/ lower flammability or explosive limits:</b></p> <p><b>Vapour pressure:</b></p> <p><b>Vapour density:</b></p> <p><b>Relative density:</b></p> <p><b>Solubility(ies)</b></p> <p><b>Partition coefficient: n-octanol/water</b></p> <p><b>Auto-ignition temperature:</b></p> <p><b>Viscosity:</b></p>	<p>Liquid</p> <p>Cream</p> <p>Characteristic</p> <p>No data available</p> <p>6 – 8.5</p> <p>No data available</p> <p>No data available</p> <p>&gt;100°C</p> <p>No data available</p> <p>Not flammable</p> <p>Not explosive</p> <p>No data available</p> <p>No data available</p> <p>1.07 g/ml</p> <p>Emulsifiable</p> <p>No data available</p> <p>No data available</p> <p>No data available</p>
<p><b>10) Stability &amp; Reactivity:</b></p>	
<p><b>Chemical stability:</b></p> <p><b>Hazardous decomposition product(s):</b></p> <p><b>Conditions to avoid:</b></p> <p><b>Incompatible materials:</b></p>	<p>When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Thermally and chemically stable.</p> <p>Hydrogen fluoride – decomposes by reaction with alkaline solutions.</p> <p>Protect from sources of heat and frost.</p> <p>Oxidizing agents, acids and bases</p>
<p><b>11) Toxicological Information:</b></p>	
<p>Acute:</p> <p>Oral LD50 &gt; 2 000 mg/kg, rat.</p> <p>Dermal LD50 &gt; 2 000 mg/kg, rat.</p>	

**Information based on active ingredient**

Inhalation LC50 (4h), rat: Carbendazim > 5.6 mg/L  
Flusilazole > 5.0 mg/L

Skin irritation: Not an irritant, rabbit.

Eye irritation: Not an irritant, rabbit.

Skin sensitization: Not a sensitizer, Guinea pig.

Other: Indication of possible carcinogenic effect in animal tests.

: Non-mutagenic

: Indication of possible reproductive toxicity in animal tests.

**12) Ecological Information:****The following information is based on the active ingredients:**

Bees: Carbendazim: Contact LD50 > 50 ug/bee

Flusilazole: LD50 > 150 ug/bee

Birds: Carbendazim: Acute oral LD50 for quail 5 826-15 595 mg/kg.

Flusilazole: Acute oral LD50 mallard ducks >1590 mg/kg

Fish: Carbendazim: LC50 (96h) carp 0.61 mg/L, rainbow trout 0.83 mg/L, bluegill sunfish >17.25 mg/L, guppies >8 mg/L

Flusilazole: LC50 (96h) Rainbow trout 1.2 mg/L, bluegill sunfish 1.7 mg/L

Daphnia: Carbendazim: LC50(48h) 0.13-0.22 mg/L.

Flusilazole: LC50(48h) 3.4 mg/L

Algae: Carbendazim: Algae - EC50(72h) for *Scenedesmus subspicatus* 419 mg/L, *Selenastrum capricornutum* 1.3 mg/L

Worms: Carbendazim: LC50 (4w) for *Eisenia foetida* 6 mg/kg dry soil.

Carbendazim: 2-Aminobenzimidazole has been found as a minor metabolite. DT<sub>50</sub> in soil 8–32 d under outdoor conditions.

Carbendazim decomposes in the environment, DT<sub>50</sub> 6–12 mo on bare soil, 3–6 mo on turf, and 2–25 mo in water under aerobic and anaerobic conditions, respectively. It is mainly decomposed by micro-organisms. K<sub>oc</sub> 200–250.

Flusilazole: Average DT<sub>50</sub> 95 days.

Biodegradation: Not readily biodegradable.

Bioaccumulative potential: Not considered to be persistent, bioaccumulating or toxic.

**13) Disposal Considerations:**

**Waste Disposal:** Waste should not be re-used. Do not contaminate rivers, dams, water sources, food or feed by disposal. Open dumping or burning of this pesticide is prohibited. Wastes resulting from the use of this product should be disposed of according to local regulations. Must be incinerated in a suitable incineration plant holding a permit from competent authorities.

**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. 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

Packing group: III

Hazard label: 9, EHSM

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Fusilazole, Carbendazim)

Maritime transport IMDG/IMO

Class: 9

Packing group: III

Hazard label: 9, EHSM

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Fusilazole, Carbendazim)

Not classified as dangerous in the meaning of air transport regulations – Optional classification as per IATA Special Provision A97.

Considered a marine pollutant.



## 15) Regulatory Information:

**Symbols:** T – Toxic

N – Dangerous for the environment

**Risk – Phrase:**

R22 Harmful if swallowed.

R36 Irritating to eyes

R38 Irritating to skin

R40 Limited evidence of a carcinogenic effect.

R41 Risk of serious damage to eyes

R46 May cause heritable genetic damage

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

R60 May impair fertility

R61 May cause harm to the unborn child.

**Safety – Phrase:**

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

S13 Keep away from food, drink and animal feedingstuffs.

S20/21 When using do not eat or drink

S36/37 Wear suitable protective clothing and gloves.

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

S53 Avoid exposure – obtain special instructions before use.

S57 Use appropriate container 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 datasheets.

**Hazard Statements**

H351: Suspected of causing cancer.

H400: Very toxic to aquatic life.

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

H302 Harmful if swallowed.

## 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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