with us you are growing goodness



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REG NO: 2000/010819/07 **VAT NO:** 4120189206

Safety Data Sheet

CLOUT CM - Reg. No: L 8281 (Act No 36 of 1947)

1) PRODUCT AND COMPANY IDENTIFICATION	
Product name:	CLOUT CM
Other means of identification:	Carbendazim 125 g/L + Flusilazole 250 g/L
Chemical Name:	Carbendazim: methyl benzimidazole-2-ylcarbamate
	Flusilazole: bis(4-fluorophenyl)(methyl)(1H-1,2,4-triazol-1-ylmethyl)silane
Recommended use:	Fungicide
Restrictions on use:	Agriculture
UN No:	3082
Distributed by:	MERIDIAN AGRITECH
Distributed by:	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 (OR POISONS HELPLINE): 0861 555 777 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946
2) HAZARDS IDENTIFICATION	
Classification of the substance/mixture:	Acute Toxicity (Oral) Category 4 Acute Toxicity (Dermal) Category 4 Carcinogenicity Category 2 Mutagenicity Category 1B Reproductive Toxicity Category 1B STOT RE Category 2 Aquatic Acute Category 1 Aquatic Chronic Category 1
Label Elements: Globally Harmonized System, EU (GHS):	Pictograms: Signal Word: Danger Hazard Statements: H302: Harmful if swallowed. H312: Harmful in contact with skin. H340: May cause genetic defects. H351: Suspected of causing cancer. H360: May damage fertility or the unborn child. H373: May cause damage to organs through prolonged or repeated exposure. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long-lasting effects. H411: Toxic to aquatic life with long-lasting effects. Precautionary Statements: P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P262: Do not get in eyes, on skin, or on clothing.

P263: Avoid contact during pregnancy or while nursing. **P270:** Do not eat, drink or smoke when using the product.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves, protective clothing, eye protection.

P321: Specific treatment (See First aid measures on this label)

P362+P364: Take off contaminated clothing and wash it before reuse.

P405: Store locked up.

According to Directive 67/548/EEC No. 1272/2008 [CLP]

Hazard Symbol(s):

Xn - dangerous to health

Xi - Irritant

N - dangerous for the environment

R-phrase(s):

R22: Harmful if swallowed R36: Irritating to eyes.

R40: Limited evidence of a carcinogenic effect. **R46:** May cause heritable genetic damage.

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

R51/ 53: 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.

S-phrase(s):

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

\$36/37: Wear suitable protective clothing and gloves.

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

\$53: Avoid exposure - obtain special instructions before use.

\$57: 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

3) COMPOSITION / INFORMATION ON INGREDIENTS:

3.1 Substances:

Not applicable

3.2 Mixtures:

Chemical name	Concentration	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)
Carbendazim	125 g/L	10605-21-7	234-232-0	Acute Tox Cat. 4 (H312) Carc. Cat. 2 (H351) Muta. Cat. 1B (H340) Repr. Cat. 1B (H360) STOT RE Cat. 2 (H373) Aquatic Acute Cat. 1 (H400) Aquatic Chronic Cat. 1 (H410)
Flusilazole	250 g/L	85509-19-9	617-717-5	Acute Tox. Cat. 4 (H302) Carc. Cat. 2 (H351) Repr. Cat. 1B (H360) Aquatic Chronic Cat. 2 (H411)

4) FIRST AID MEASURES

Description of First-Aid Measures:	
Inhalation:	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 immediately.
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.
Eye contact:	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance if irritation persists.
Ingestion:	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. Repeatedly administer medicinal charcoal in large quantities of water. For advice, contact the National Poisons Centre. Seek medical assistance immediately.
Most important symptoms and effects, both acute and delayed:	Inhalation may cause: Dizziness, irritation. Eye contact may cause: Irritation. Skin contact may cause: Local irritation. Ingestion may cause: Vomiting, Diarrhoea.
Indication of any immediate medical attention and special treatment needed:	Treat symptomatically. Do not give ephedrine or related drugs.
5) FIRE-FIGHTING MEASURES	
Extinguishing Media:	Fine water spray, foam, carbon dioxide.
Unsuitable Extinguishing Media:	Do not use high volume water jet, due to contamination risk.
Specific Hazards arising from the substance/mixture:	Generating poisonous and corrosive fumes containing: carbon monoxide, nitrogen oxides and hydrochloric acid.
	UNUSUAL FIRE OR EXPLOSION HAZARDS: Take extra care if mixed with chlorine releasing compounds - increased skin irritancy
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. 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.
Protective clothing:	Full protective clothing and self-contained breathing apparatus
6) ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and	Avoid contact with skin and eyes. Do not breathe in spray
emergency procedures:	or fumes. For personal protection see Section 8.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Do not allow to enter drains or watercourses. If contamination of water courses is unavoidable, report to the Police and the Department of Water/Environmental Affairs immediately.
Methods and material for containment and cleaning up:	Wear protective clothing. Clear area of unprotected personnel. Contain and absorb liquid spills with inert material, remove by scoop or vacuum. Use approved industrial vacuum cleaner for removal and place in waste

	containers. Wash area with water and detergent and absorb with further inert material. 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.
7) HANDLING & STORAGE	
Precautions for Safe Handling:	Avoid skin and eye contact and inhalation of spray mist. Keep away from heat and sources of ignition. 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. Spills may be slippery and should be cleaned up immediately. TRACKING: Is not required BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.
Conditions for Safe Storage, including any incompatibilities:	Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Keep away from children or uninformed persons.
8) EXPOSURE CONTROL / PERSONAL PROTECTION:	I
Appropriate Engineering Controls:	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.
Control Parameters: Occupational exposure limits:	None known.
PERSONAL PROTECTIVE EQUIPMENT: Clothing:	Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance. Respiratory protection: Respirator with filter for organic vapour. Hygiene measures: Wash hands before breaks
	and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use.
Gloves:	do not eat, drink or smoke. Wash contaminated clothing
Gloves: Eye protection:	do not eat, drink or smoke. Wash contaminated clothing before re-use. Employee must wear appropriate chemical-resistant gloves
	do not eat, drink or smoke. Wash contaminated clothing before re-use. Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance The use of safety goggles with side shields is
Eye protection: Emergency eye wash: 9) PHYSICAL & CHEMICAL PROPERTIES	do not eat, drink or smoke. Wash contaminated clothing before re-use. Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance The use of safety goggles with side shields is recommended. 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.
Eye protection: Emergency eye wash: 9) PHYSICAL & CHEMICAL PROPERTIES Appearance:	do not eat, drink or smoke. Wash contaminated clothing before re-use. Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance The use of safety goggles with side shields is recommended. 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.
Eye protection: Emergency eye wash: 9) PHYSICAL & CHEMICAL PROPERTIES Appearance: Odour:	do not eat, drink or smoke. Wash contaminated clothing before re-use. Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance The use of safety goggles with side shields is recommended. 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. Off-white, beige liquid Sweet odour
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Eye protection: Emergency eye wash: 9) PHYSICAL & CHEMICAL PROPERTIES Appearance: Odour: Solubility: pH: Odour threshold:	do not eat, drink or smoke. Wash contaminated clothing before re-use. Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance The use of safety goggles with side shields is recommended. 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. Off-white, beige liquid Sweet odour Completely miscible in water 8.2 at 10 g/l (20 °C) No data available
Eye protection: Emergency eye wash: 9) PHYSICAL & CHEMICAL PROPERTIES Appearance: Odour: Solubility: pH: Odour threshold: Melting point / Freezing point	do not eat, drink or smoke. Wash contaminated clothing before re-use. Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance The use of safety goggles with side shields is recommended. 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. Off-white, beige liquid Sweet odour Completely miscible in water 8.2 at 10 g/l (20 °C) No data available No data available
Eye protection: Emergency eye wash: 9) PHYSICAL & CHEMICAL PROPERTIES Appearance: Odour: Solubility: pH: Odour threshold: Melting point / Freezing point Initial boiling point and boiling range	do not eat, drink or smoke. Wash contaminated clothing before re-use. Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance The use of safety goggles with side shields is recommended. 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. Off-white, beige liquid Sweet odour Completely miscible in water 8.2 at 10 g/l (20 °C) No data available No data available No data available
Eye protection: Emergency eye wash: 9) PHYSICAL & CHEMICAL PROPERTIES Appearance: Odour: Solubility: pH: Odour threshold: Melting point / Freezing point Initial boiling point and boiling range Flash point:	do not eat, drink or smoke. Wash contaminated clothing before re-use. Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance The use of safety goggles with side shields is recommended. 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. Off-white, beige liquid Sweet odour Completely miscible in water 8.2 at 10 g/l (20 °C) No data available No data available No data available No data available > 100 °C
Eye protection: Emergency eye wash: 9) PHYSICAL & CHEMICAL PROPERTIES Appearance: Odour: Solubility: pH: Odour threshold: Melting point / Freezing point Initial boiling point and boiling range Flash point: Evaporation rate:	do not eat, drink or smoke. Wash contaminated clothing before re-use. Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance The use of safety goggles with side shields is recommended. 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. Off-white, beige liquid Sweet odour Completely miscible in water 8.2 at 10 g/l (20 °C) No data available
Eye protection: Emergency eye wash: 9) PHYSICAL & CHEMICAL PROPERTIES Appearance: Odour: Solubility: pH: Odour threshold: Melting point / Freezing point Initial boiling point and boiling range Flash point: Evaporation rate: Flammability (solid, gas)	do not eat, drink or smoke. Wash contaminated clothing before re-use. Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance The use of safety goggles with side shields is recommended. 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. Off-white, beige liquid Sweet odour Completely miscible in water 8.2 at 10 g/l (20 °C) No data available
Eye protection: Emergency eye wash: 9) PHYSICAL & CHEMICAL PROPERTIES Appearance: Odour: Solubility: pH: Odour threshold: 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:	do not eat, drink or smoke. Wash contaminated clothing before re-use. Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance The use of safety goggles with side shields is recommended. 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. Off-white, beige liquid Sweet odour Completely miscible in water 8.2 at 10 g/l (20 °C) No data available
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Decomposition Temperature:	No data available
Viscosity:	No data available
10) STABILITY & REACTIVITY	
Reactivity:	No hazards to be specifically mentioned.
Chemical Stability:	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Incompatible or can react with bases.
Possibility of hazardous reactions:	None known.
Conditions to avoid:	Temperatures < 0 °C. Protect from frost. In order to avoid thermal decomposition, do not overheat. Heating may release hazardous gases.
Incompatible materials:	Oxidising agents. Bases.
Hazardous decomposition product(s):	Carbon oxides, nitrogen oxides (NOx), hydrogen fluoride. Heating can release vapours which can be ignited. Fluorocarbons. Decomposes by reaction with alkaline solutions.
11) TOXICOLOGICAL INFORMATION	1
Acute Toxicity:	
Oral:	LD50 > 2 000 mg/kg, rat.
Dermal:	LD50/rat : > 2 000 mg/kg
Inhalation: Skin Corrosion/Irritation:	LC50 (4h) > 5.2 mg/l, rat. Mild irritant.
Serious Eye Damage/Irritation:	Mild irritant. Mild irritant.
Respiratory or Skin Sensitization:	Did not cause sensitization on laboratory animals.
Germ Cell Mutagenicity:	Carbendazim has showed mutagenic effects and may
Communication managements.	cause heritable genetic damage. Flusilazole was negative in mutagenicity tests.
Carcinogenicity:	Increased incidences of tumors were observed during studies using Carbendazim. Flusilazole was shown to be a weak carcinogen at high exposure levels.
Reproductive Toxicity:	Flusilazole: Experiments have shown reproductive toxicity effects on laboratory animals. Presumed a human reproductive toxicant. Carbendazim: Experiments have shown reproductive toxicity effects on laboratory animals. Presumed a human reproductive toxicant.
STOT-SE:	No data available
STOT-RE:	The following effects occurred at levels of exposure that significantly exceed those expected under labelled usage conditions: Oral – feed multiple species. Liver effects.
Aspiration Hazard:	No data available
12) ECOLOGICAL INFORMATION	
Ecotoxicity:	
Birds: Fish:	Carbendazim: LD50 Quail > 5000 g/kg. Flusilazole : LD50 Mallard duck > 1500 g/kg Carbendazim : LC50 (96h) Rainbow trout 0.83 mg/L. Flusilazole : LC50 (96h) Rainbow trout 1.2 mg/L.
Daphnia:	Carbendazim: LC50 (48h) 0.13 – 0.22 mg/L. Flusilazole : LC50 (48h) 3.4 mg/L.
Algae:	EC50 (72h) Selenastrum capricornutum: 419 mg/L.
Worms:	Carbendazim: LC50 (4w) 6mg/kg soil. Flusilazole : No data.
Bees:	Carbendazim: LD50 > 50 ug/bee. Flusilazole : LD50 > 150 ug/bee.
Persistence and Degradability:	Carbendazim: DT50 = 8 – 32 days. Flusilazole: DT50 = 95 days.
Bio-accumulative Potential: Mobility in Soil:	Does not bioaccumulate. Not expected to be mobile in soils.
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13) DISPOSAL CONSIDERATIONS	T
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.
Container Diopocan	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 NO REUSE THE CONTAINER FOR ANY OTHER
	PURPOSE.
	Do not transport if this container is damaged or leaking
14) TRANSPORTATION INFORMATION	Do not transport if this container is damaged of leaking
Road Transport ADR / IRD:	UN NUMBER: 3082
Road Hallsport ADR / IRD.	UN Proper Shipping name: ENVIRONMENTALLY
	HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains
	Flusilazole, Carbendazim)
	Transport Hazard Class: 9 Miscellaneous Dangerous
	Goods
	Packaging group: III
	Labelling no: 9
	Environmental Hazards: Not applicable
	Special Precautions for User: Read safety instructions,
	SDS and emergency procedures before handling.
Maritime Transport IMDG / IMO:	UN NUMBER: 3082
mantine transport imbertimo.	UN Proper Shipping name: ENVIRONMENTALLY
	HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains
	Flusilazole, Carbendazim)
	Transport Hazard Class: 9 Miscellaneous Dangerous
	Goods
	Packaging group: III Labelling no: 9
	Environmental Hazards: Marine Pollutant
	Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.
	Procedure policie manaling.
Air Transport ICAO / IATA:	UN NUMBER: 3082
·	UN Proper Shipping name: ENVIRONMENTALLY
	HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains
	Flusilazole, Carbendazim)
	Transport Hazard Class: 9 Miscellaneous Dangerous
	Goods
	Packaging group: III
	Labelling no: 9
	Environmental Hazards: Not applicable
	Special Precautions for User: Read safety instructions,
	SDS and emergency procedures before handling.
Transport in Bulk (according to Annex II of MARPOL	No transport in bulk according to the IBC Code.
73/78 and the IBC Code):	1
15) REGULATORY INFORMATION	For the upon of this plant protective product applies: (Ta
Safety, health and environmental	For the user of this plant-protective product applies: 'To
regulations/legislation specific for the substance/mixture:	avoid risks to man and the environment, comply with the
Substance/mixture:	instructions for use.' (Directive 1999/45/EC, Article 10, No.
Chamical Cafety Assessment	1.2)
Chemical Safety Assessment:	Advice on product handling can be found in sections 7 and
16) OTHER INCORMATION:	8 of this safety data sheet.
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. The information contained herein is provided in good faith but makes no representation as to its comprehensiveness or accuracy. A properly trained person using this product intends this document only as a guide to the appropriate handling of the material. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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INFORMATION REFERS. ACCORDINGLY, MERIDIAN AGRITECH (PTY) LTD WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

Date of issue: 17/07/2010

Date of revision: 25/08/2015, 09/03/2020

- Abbreviations and acronyms:
 1. CAS number: Chemical Abstracts Service number.
 - 2. CLP: Classification, Labelling, Packaging.
 - 3. LD₅₀: Lethal Dose for 50% of the test population.
 - 4. LC₅₀: Lethal Concentration for 50% of the test population.
 - 5. DT₅₀: Half-life.
 - 6. GHS: Globally Harmonised System (of Classification and Labelling of Chemicals).
 - 7. STOT: Specific Target Organ Toxicity8. SE: Single exposure

 - 9. RE: Repeated exposure

Literature References:

- GHS: www.ccohs.ca/oshanswers/chemicals/ghs.html
- ECHA: https://echa.europa.eu/search-chemicals