

	MATERIAL SAFETY DATA SHEET	Page : 1
		Revised edition no : 3
		Date : 9 / 7 / 2009
		Supersedes : 23 / 3 / 2009
COTTOGARD 500 SC		H-0073

SECTION 1. Identification of the substance/mixture and of the company/undertaking

Trade name : COTTOGARD 500 SC
Substance name : Flumeturon: 1,1-dimethyl-3-a,a,a-trifluoro-m-tolyl)urea.
Prometryn: N2,N4-di-isopropyl-6-methylthio-1,3,5-triazine-2,4-diamine.
Relevant identified uses : Herbicide
Company identification : ADAMA SOUTH AFRICA (PTY) LTD
21 Viben Street
Brackenfell 7560
Email : msds@mcw.co.il
Phone nr : +27 82 331 6463
+27 21 982 1460

SECTION 2. Hazards identification

Environmental hazard : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 3. Composition/information on ingredients

Substance name	Concentration % w/w	CAS No	EC No	Index No	REACH Reg.	Classification
Flumeturon	: 21 - 24 %	2164-17-2	218-500-4	-----	----	N; R50-53
Prometryn	: 21 - 24	7287-19-6	230-711-3	-----	----	N; R50-53

SECTION 4. First aid measures

First aid measures
Inhalation : Remove victim to fresh air. If breathing is difficult: artificial respiration . Get medical attention.
Skin contact : Remove contaminated clothing and shoes. Wash away remainder with plenty of water.
Eye contact : Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Get medical attention.
Ingestion : Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.
Note to physician : No specific antidote known. Treat symptomatically and give supportive therapy.
Protection of first-aiders : Use appropriate protection (see section 8).

SECTION 5. Fire-fighting measures

Suitable extinguishing media : For small fire : dry chemical powder , water spray carbon dioxide
For large fire : foam , water fog , water spray.
Protection against fire : Self-contained breathing apparatus and total protection required in enclosed areas.
Hazardous decomposition products : Sulfur oxides , Fluoride compounds , nitrogen oxides (NO, NO2) , carbon oxides (CO, CO2) .

SECTION 6. Accidental release measures

For emergency responders : Wear suitable protective clothing, gloves and eye/face protection.
Environmental precautions : Do not empty into drains Do not discharge into the environment.
Clean up methods : Absorb in sand or other inert material. Collect spills and put it into appropriated container.
Dispose of this material and its container at hazardous or special waste collection point.

MATERIAL SAFETY DATA SHEET

Page : 2

Revised edition no : 3

Date : 9 / 7 / 2009

Supersedes : 23 / 3 / 2009

COTTOGARD 500 SC**H-0073**

SECTION 7. Handling and storage

- Handling** : Ventilation required.
- Storage** : Keep in original containers. Keep away from food, drink and animal feeding stuffs. Store in dry, well-ventilated area.
- Precautions in handling and storage** : Handle in accordance with good industrial hygiene and safety procedures.
- Storage - away from** : Direct sunlight .

SECTION 8. Exposure controls/personal protection

- TLV©** : Fluometuron: Data not available.
Prometryn: 5 mg/m³
: Ventilation required.
- : Wash hands thoroughly after handling. When using do not eat, drink or smoke. Wash clothing before re-using.
- Personal protection**
- **Respiratory protection** : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. .
 - **Hand protection** : Wear suitable gloves.
 - **Skin protection** : Wear suitable protective clothing Wear safety boots.
 - **Eye protection** : Chemical goggles or safety glasses.

SECTION 9. Physical and chemical properties

- Physical state at 20 °C** : Liquid
- Colour** : White -off white
- Odour** : Faint odour
- pH value** : 7-8.5
- Boiling point [°C]** : 100 (water)
- Flammability** : Not flammable
- Vapour pressure [mPa]** : 0.125 @ 25°C (Fluometuron)
0.114 @ 25°C (Prometryn)
- Density [g/ml]** : 1.115± 0.02 @ 20°C
- Solubility in water** : Miscible
- Log P octanol / water at 20°C** : 2.23 (Fluometuron)
3.56 (Prometryn)
- Explosive Properties** : Not explosive
- Oxidising properties** : Not oxidizing

SECTION 10. Stability and reactivity

- Stability** : Stable under normal conditions.
- Hazardous decomposition products** : Sulfur oxides , fluorides , nitrogen oxides (NO, NO₂) , carbon oxides (CO, CO₂) .
- Materials to avoid** : oxidizing agents , acids , alkali .

	MATERIAL SAFETY DATA SHEET	Page : 3
		Revised edition no : 3
		Date : 9 / 7 / 2009
		Supersedes : 23 / 3 / 2009
COTTOGARD 500 SC		H-0073

SECTION 11. Toxicological information

On product

- Rat oral LD50 [mg/kg] : >2,000
- Dermal, Rat LD50 [mg/kg] : > 2,000
- Mutagenicity** : Fluometuron: Not mutagenic
- Carcinogenicity** : Fluometuron: EU : not classified.
Prometryn:
EU : Not classified .
- Toxic for reproduction : Fertility** : Not considered to be toxic for the reproductive system.
- Toxic for reproduction** : Not teratogenic in animal experiments

SECTION 12. Ecological information

- 96 H-LC50 - Rainbow trout [mg/l]** : (Prometryn): 5.5
(Fluometuron): 30
- 48 H-EC50 - Daphnia magna [mg/l]** : (Fluometuron): 54
(Prometryn): 12.66
- 72 H-EC50 - Algae [mg/l]** : (Fluometuron): 0.16
(Prometryn): 0.023
- LD50 Birds [mg/kg]** : Bobwhite quail >2,150
- Bees LD50 [µg]** : Not toxic to bees
- Persistence - degradability** : **Soil :**
: Moderately persistent in soil.
: Adsorbed on organic matter and clay. Low risk of underground water contamination. (Prometryn).
- : **(Prometryn): Water :**
: The product is not persistent.
- Mobility** : **(Fluometuron): Soil :**
: Moderate .
- : **(Prometryn): Soil :**
: Low mobility .
- Bioaccumulative potential** : (Prometryn): Low bioaccumulation potential (BCF< 100).

SECTION 13. Disposal considerations


- General** : Dispose of in a pesticide approved landfill, or in a chemical incinerator equipped with scrubbers. Dispose in a safe manner in accordance with local/national regulations.

SECTION 14. Transport information

- UN N°** : 3082
- Proper shipping name** : UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Fluometuron, Prometryn), 9, III
- H.I. no : 90
- IMO-IMDG - class or division : 9
- Packing group : III
- IMDG-Marine pollution : Marine pollutant - Polluant marin

	MATERIAL SAFETY DATA SHEET	Page : 4
		Revised edition no : 3
		Date : 9 / 7 / 2009
		Supersedes : 23 / 3 / 2009
COTTOGARD 500 SC		H-0073

SECTION 15. Regulatory information

- EU Classification** : According to Commission Directive 67/548/EEC, 1999/45/EC and its amendments
- Symbol(s)** : N: N : Dangerous for the environment.
- 
- R Phrase(s)** : R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S Phrase(s)** : S02 - Keep out of the reach of children.
S13- Keep away from food, drink and animal feedingstuffs.
S29/35- Do not empty into drains; dispose of this material and its container in a safe way.
S36/37 - Wear suitable protective clothing and gloves.
S46- If swallowed, seek medical advice immediately and show this container or label.
S57- Use appropriate containment to avoid environmental contamination.
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

SECTION 16. Other information

List of relevant R phrases (heading 3) : R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

End of document