

Page : 1 of 5

Revised edition no : 1

Date: 26 / 2 / 2008 Supersedes: 0 / 0 / 0

COTTONEX P

H-0073

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Trade name : COTTONEX P

Chemical description : Flumeturon: 1,1-dimethyl-3-a,a,a-yrifluoro-m-tolyl)urea.

Prometryn: N2,N4-di-isopropyl-6-methylthio-1,3,5-triazine-2,4-diamine.

Use : Herbicide.

Company identification : Agan Chemical Manufacturers Ltd.

P.O.B. 262

ASHDOD Israel : +972-8-8515211

Email : MSDS@ma-industries.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance name		Value(s)	CAS No	EC No	Index No	Classification
Fluometuron	:	21 - 24 %	2164-17-2	218-500-4		
Prometryn	:	21 - 24	7287-19-6	230-711-3		

3. HAZARDS IDENTIFICATION

Emergency phone nr

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

environment.

4. FIRST AID MEASURES

First aid

Inhalation : Remove victim to fresh air. If breathing is difficult: artificial respiration . Get

medical attention.

Ingestion: Wash out mouth with plenty of water. Never give anything by mouth to an

unconscious person. 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.

Note to physician : No specific antidote known. Treat symptomatically and give supportive therapy.

Protection of first-aiders : Use appropriate protection (see section 8).

5. FIRE-FIGHTING MEASURES

Protection of fire-fighters

Extinguishing media : For small fire : dry chemical powder , water spray, carbon dioxide.

For large fire: foam, water fog, water spray.

Hazardous decomposition products

: Sulfur oxides , fluorides , nitrogen oxides (NO, NO2...) , carbon oxides (CO, CO2) .: Self-contained breathing apparatus and total protection required in enclosed areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear suitable protective clothing, gloves and eye/face protection. **Environmental precautions** : Do not discharge into the environment.

After spillage and/or leakage : 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.



Page : 2 of 5

Revised edition no : 1

Date : 26 / 2 / 2008

Supersedes: 0 / 0 / 0

COTTONEX P

H-0073

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 .

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures : Ventilation required.

Industrial hygiene : 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. .

- **Skin protection** : Wear suitable protective clothing Wear safety boots.

- Hand protection : Wear suitable gloves.

- **Eye protection** : Chemical goggles or safety glasses.

Occupational Exposure Limits

TLV : Fluometuron: No data available.

Prometryn: 5 mg/m3

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid

Colour : White -off white
Odour : Faint odour
pH value : 7-8.5
Boiling point [°C] : 100 (water)

Density [g/ml] : 1.115± 0.02 @ 20°C

Vapour pressure [mPa] : 0.125 @ 25°C (Fluometuron) 0.114@ 25°C (Prometryn)

· Missible

Solubility in water : Miscible

Log P octanol / water : 2.23 (Fluometuron) 3.56 (Prometryn)

Flammability : Not flammable
Explosion properties : Not explosive
Oxidation properties : Not oxidizing

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.



Page : 3 of 5

Revised edition no : 1

Date: 26 / 2 / 2008 Supersedes: 0 / 0 / 0

COTTONEX P

H-0073

11. TOXICOLOGICAL INFORMATION

On product

Rat oral LD50 [mg/kg] : >2,000 Rat dermal LD50 [mg/kg] : > 2,000

Chronic toxicity : (Fluometuron): NOEL (rat):19 mg/kg/day, (mouse):1/2 mg/kg/day.

(Prometryn): NOEL (rat)=83 mg/kg/day or 1,250 ppm (2 years). (Prometryn): NOEL dog)=4 mg/kg/day or 150 ppm (2 years).

Carcinogenicity : (Fluometuron): EPA , EU , IARC : not classified.

(Prometryn): EPA: Group E, EU, IARC: Not classified.

Mutagenicity : (Fluometuron): Not mutagenic. (Prometryn): Not mutagenic.

(Florifettyff). Not mutagenic.

Reproductive toxicity : (Fluometuron): NOEL 10 ppm.

(Prometryn): NOAEL (rat): 300 ppm (3 generations).

Teratogenicity : (Fluometuron): NOEL (rat): 10 mg/kg/day.

(Prometryn): NOEL (rat)=80 mg/kg/day (maternal), 220 mg/kg/day (fetal).

NOEL (rat)>360 mg/kg/day (teratogenic).

12. ECOLOGICAL INFORMATION

96 H-LC50 - Bluegill sunfish [mg/l] : (Fluometuron): 48

(Prometryn): 8 : (Fluometuron):170

 96 H-LC50 - Carp [mg/l]
 : (Fluometuron):170

 96 H-LC50 - Rainbow trout [mg/l]
 : (Prometryn): 5.5

(Fluometuron): 30

48 H-EC50 - Daphnia magna [mg/l] : (Fluometuron): 54

(Prometryn): 12.66

7 d.-NOEC - Zebra fish [mg/l] : (Prometryn): 1
72 H-EC50 Algae [mg/l] : (Fluometuron): 0.16

(Prometryn): 485

EC50 Algae [mg/l] : (Prometryn): (5 days): 0.023

LD50 Birds [mg/kg] : (Fluometuron): Bobwhite quail >2,150 (Fluometuron): Mallard duck =2.974

(Fluometuron): Mallard duck =2,974 (Prometryn): chicken > 2,000 (Prometryn): Bobwhite quail >3,851

Birds LC50 [ppm] : (Fluometuron): (8 day feeding): Bobwhite quail =4,500

(Fluometuron): (8 day feeding): Mallard duck =4,500 (Prometryn): (8 day feeding): Mallard duck >5,000

(Prometryn): Bobwhite quail >4,640

(Prometryn): (8 day feeding): Bobwhite quail >5,000

(Prometryn): Mallard duck >4,640

Bees LD50 [µg/Bee] : (Fluometuron): Oral >155

(Prometryn): oral >99 (Prometryn): Contact >130

Persistence and degradability : (Fluometuron): Soil :

: Moderately persistent in soil. Half-life time (t1/2) ~ 30 days.

Degradation is primarily via: microorganisms. .

: (Prometryn): Soil :

: Moderately persistent in soil.

Adsorbed on organic matter and clay. Half-life time (t1/2): 40-70 days.

Degradation is primarily via: microorganisms.



Page : 4 of 5

Revised edition no : 1

Date : 26 / 2 / 2008

Supersedes: 0 / 0 / 0

COTTONEX P

H-0073

12. ECOLOGICAL INFORMATION (continued)

Low risk of underground water contamination.

The product is not biodegradable

: (Prometryn): Water :

: The product is not persistent.

Mobility : (Fluometuron): Soil :

: Moderate .

: (Prometryn): Soil : : Low mobility . Koc 400 ml/g

Bioaccumulative potential : (Prometryn): Low bioaccumulation potential (BCF< 100).

13. DISPOSAL CONSIDERATIONS

Disposal : 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.

14. TRANSPORT INFORMATION

International transport regulations

- UN No. : 3082

- Proper shipping name : Environmentally hazardous substance, liquid, N.O.S. (Fluometuron, Prometryn).

Land transport

- **H.I. nr**: : 90

- ADR/RID : Class 9, M6, PG III

Sea transport

- IMO-IMDG code : Class 9, PG III - EMS-Nr : F-A, S-F

Air transport

- IATA - Class or division : 9, PG III

National transport regulations : No additional national regulations are available/required

15. REGULATORY INFORMATION

EU Classification : According to Commision Directive 67/548/EEC and its amendments

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 wav.

S36/37 - Wear suitable protective clothing and gloves.

S57- Use appropriate containment to avoid environmental contamination. S61 - Avoid release to the environment. Refer to special instructions/Safety data

sheets.



Page : 5 of 5

Revised edition no : 1

Date : 26 / 2 / 2008

Supersedes: 0/0/0

COTTONEX P

H-0073

16. OTHER INFORMATION

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