

# SAFETY DATA SHEET

Fluometuron 500 SC

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 1
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 HRB00826-S

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**Product identifier** 

Fluometuron 500 SC

Synonyms Cottonex 500 SC Pure substance/mixture Mixture

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Herbicide

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address ADAMA Agan Ltd

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Emergency Telephone

**Emergency Telephone** +972-03-6106666 Subscription no. 36789 (ADAMA Makhteshim Ltd.)

# **Section 2: HAZARD IDENTIFICATION**

# Classification of the substance or mixture

Acute toxicity - Oral Category 4 - (H302) Chronic aquatic toxicity Category 2 - (H411)

Label Elements

# **Hazard pictograms**



ADAMA Page 1/8

Signal word Warning

Hazard Statements H302 - Harmful if swallowed

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements P102 - Keep out of reach of children

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

P501 - Dispose of contents/ container to an approved waste disposal plant

Other Hazards

No information available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Chemical Name	Weight-%	CAS No
Fluometuron	41-45	2164-17-2
Ethylene Glycol	3-5	107-21-1

## **Section 4: FIRST AID MEASURES**

First aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible). First aider: Pay attention to self-protection!.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call

a physician.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Consult a physician if necessary.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

**Ingestion** Rinse mouth. Drink plenty of water. Call a physician or poison control center immediately.

**Self-protection of the first aider** Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms None known

Indication of any immediate medical attention and special treatment needed

## Section 5: FIRE-FIGHTING MEASURES

## Extinguishing media

# **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## **Unsuitable Extinguishing Media**

No information available.

## Special hazards arising from the substance or mixture

No specific hazard known.

#### Advice for firefighters

In the event of fire, wear self-contained breathing apparatus In the event of fire and/or explosion do not breathe fumes.

## Section 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

#### Personal precautions

Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### For emergency responders

Use personal protection recommended in Section 8.

#### **Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

## Methods and material for containment and cleaning up

#### Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

#### Reference to other sections

# Other Information

See also section 8,13

# **Section 7: HANDLING AND STORAGE**

#### Precautions for safe handling

## Advice on safe handling

Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation.

#### **General Hygiene Considerations**

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink or smoke when using this product.

# Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

## Specific end use(s)

#### **Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## National occupational exposure limits

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Ethylene Glycol 107-21-1	S* TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³	STEL: 40 ppm STEL: 104 mg/m³ STEL: 30 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ TWA: 10 mg/m³ Skin	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³	S* STEL: 40 ppm STEL: 104 mg/m³ TWA: 20 ppm TWA: 52 mg/m³	TWA: 10 ppm TWA: 26 mg/m³ Ceiling / Peak: 20 ppm Ceiling / Peak: 52 mg/m³ Skin
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Ethylene Glycol 107-21-1	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Skin	Ceiling: 100 mg/m <sup>3</sup>	Skin STEL: 104 mg/m³ TWA: 52 mg/m³ TWA: 10 mg/m³	TWA: 20 ppm TWA: 50 mg/m³ STEL: 40 ppm STEL: 100 mg/m³ Skin	TWA: 10 ppm TWA: 26 mg/m³ TWA: 10 mg/m³ Skin
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Ethylene Glycol 107-21-1	Skin STEL 20 ppm STEL 52 mg/m³ TWA: 10 ppm TWA: 26 mg/m³	Skin STEL: 20 ppm STEL: 52 mg/m³ TWA: 10 ppm TWA: 26 mg/m³	STEL: 50 mg/m³ TWA: 15 mg/m³	TWA: 10 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ Skin Ceiling: 25 ppm STEL: 104 mg/m³ STEL: 40 ppm	TWA: 10 mg/m <sup>3</sup> TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> STEL: 40 ppm STEL: 104 mg/m <sup>3</sup> Skin

Derived No Effect Level (DNEL)

No information available

**Predicted No Effect Concentration** 

(PNEC)

No information available.

Exposure controls

**Engineering Controls** 

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Body Protection Tight sealing safety goggles.

Rubber boots, Apron, Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact, Gloves made of plastic or

rubber.

**General Hygiene Considerations** 

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink or smoke

when using this product.

**Environmental exposure controls** 

Do not allow into any sewer, on the ground or into any body of water.

# **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

# Physical and Chemical Properties

<u>Property</u> <u>Values</u> <u>Method</u> <u>Remarks</u>

Appearance Physical state

Physical state : Liquid
Color : white
Odor : Chlorine
Odor threshold : No data available

**pH** : 6.7 - 7.7 CIPAC MT 75.3 solution (1 %)

#### Fluometuron 500 SC - HRB00826-S

Revision Date 25-May-2015

Melting point/freezing point °C No data available

Boiling point/boiling range °C : No data available

EEC A.9 Flash point °C Not flammable

**Evaporation rate** : Not Applicable Flammability (solid, gas) : Not Applicable : No data available Upper/lower flammability or

explosive limits

Vapor pressure kPa : No data available Vapor density : No data available

: 1.11 - 1.21 CIPAC MT 3.3 Relative density 20 °C

: No data available Solubility(ies) mg/l **Partition Coefficient** 

(n-octanol/water) Log Pow **EEC A.15**  information

See Section 12 for more

Autoignition temperature °C

: 462

: No data available Decomposition temperature °C

: 46 - 545 CIPAC MT 114 Kinematic viscosity mm2/s 40 °C

**Explosive properties** : Not an explosive

**Oxidizing properties** : No

Other Information

Bulk density g/ml Not Applicable

: 31.7 25 °C Surface tension mN/m

## Section 10: STABILITY AND REACTIVITY

## Reactivity

Not available.

## Chemical stability

Stable under normal conditions.

# Possibility of Hazardous Reactions

None under normal processing.

## Conditions to avoid

Heat, flames and sparks.

#### **Incompatible Materials**

No information available

#### **Hazardous Decomposition Products**

None under normal use conditions.

# **Section 11: TOXICOLOGY INFORMATION**

# Information on toxicological effects

**Acute toxicity** 

Values Species Method Remarks 500 - 1000 **OECD 423** Oral LD50 mg/kg Rat

Dermal LD50 mg/kg > 4000 Rat OECD 402

Inhalation LC50 mg/l/4h : > 2.38 Rat OECD 403 Maximum

attainable concentration

Skin corrosion/irritation: Non-irritating to the skinRabbitOECD 404Serious eye damage/eye irritation: Not irritating to eyesRabbitOECD 405

**Serious eye damage/eye irritation**: Not irritating to eyes Rabbit OECD 405 **Respiratory/skin sensitization**: Not a skin sensitizer Guinea pig OECD 406

**Chronic toxicity** 

Germ cell mutagenicity

**Chemical Name** 

Fluometuron : Not classified

Carcinogenicity

Chemical Name

Fluometuron : Not Carcinogenic

Reproductive toxicity .

**Chemical Name** 

Fluometuron : Not toxic for the reproductive system

STOT - single exposure

**Chemical Name** 

Fluometuron : No data available

STOT - repeated exposure

**Chemical Name** 

Fluometuron : No data available

Aspiration hazard Chemical Name

Fluometuron : No data available

# **Section 12: ECOLOGICAL INFORMATION**

## **Toxicity**

## **Aquatic toxicity**

Acute toxicity	<u>Values</u>	<b>Species</b>	<u>Method</u>	Remarks

Fish 96-hour LC50 mg/l: > 136Rainbow troutOECD 203Crustacea 48-hour EC50 mg/l: 52.5Daphnia magnaOECD 202Algae 72-hour EC50 mg/l: 3.64Navicula pelliculosaOECD 201

Other plants EC50 mg/l : 4.99 Lemna OECD 221 7 days

Terrestrial Toxicity
Birds Oral LD50 mg/kg

**Chemical Name** 

Fluometuron : > 2150 Bobwhite quail EPA-FIFRA 71-1

Bees Oral LD50 µg/bee

**Chemical Name** 

Fluometuron : > 34 OECD 213, OECD 214

Persistence and degradability

Abiotic Degradation <u>Values</u> <u>Method</u> <u>Remarks</u>

Water DT50 days Chemical Name

Fluometuron : 74

Soil DT50 days Chemical Name

Fluometuron : 63.6

Biodegradation

Bioaccumulative potential

Partition Coefficient Values Method Remarks

(n-octanol/water) Log Pow

**Chemical Name** 

Fluometuron : 2.28 OECD 117 pH 7

**Bioconcentration factor (BCF)** 

**Chemical Name** 

Fluometuron : 40; 69 OECD 305E Low

Mobility in soil

Adsorption/Desorption Values Method Remarks

Chemical Name

Fluometuron : 67.4 OECD 106 Koc

Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

Other adverse effects

No information available.

# **Section 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods

Waste from residues/unused

products

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated packaging** Improper disposal or reuse of this container may be dangerous and illegal.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

# Section 14: TRANSPORTATION INFORMATION

IMDG/IMO

**UN/ID No** 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluometuron)

Hazard Class9Packing GroupIIIMarine pollutantYes

Special precautions for user

RID/ADR

**UN/ID No** 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluometuron)

Hazard Class 9
Packing Group III
Environmental hazard Yes

Special precautions for user

ADAMA Page 7/8

ICAO/IATA

**UN/ID No** 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluometuron)

**Hazard Class Packing Group** Ш **Environmental hazard** Yes

Special precautions for user

Transport in bulk according to

Annex II of MARPOL 73/78 and the

**IBC Code** 





# **Section 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture

Not Applicable

# **Section 16: OTHER INFORMATION**

**Revision Note** \*\*\* - Change from previous version.

## **Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**