

SAFETY DATA SHEET

Terbutryn 500 SC

 Revision Date
 13-Mar-2016
 Version
 1
 Product No
 LSMH00021-E

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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Terbutryn 500 SC

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

P.O.B. 262 ASHDOD Israel

For further information, please contact

Email address SDS@ADAMA.COM

Emergency Telephone

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

Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Acute toxicity - Oral Category 4 - (H302)
Acute aquatic toxicity Category 1 - (H400)
Chronic aquatic toxicity Category 1 - (H410)

Label Elements

Hazard pictograms



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Signal word Warning

Hazard Statements H302 - Harmful if swallowed

H410 - Very 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

Chemical Name	Weight-%	CAS No
Terbutryn	45-50	886-50-0

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. If symptoms persist, call a physician.

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.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

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. Use only with adequate ventilation.

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place.

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

Exposure controls

Not Applicable

No data available

Engineering Controls

Personal protective equipment

Ensure adequate ventilation, especially in confined areas.

Eye/face protection Tight sealing safety goggles. **Body Protection** Suitable protective clothing.

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. **General Hygiene Considerations**

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained. Do not

allow into any sewer, on the ground or into any body of water. Prevent product from

entering drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Property Property Values Method Remarks

Appearance Physical state Liquid Color white Odor Faint

Odor threshold : No data available

: 6-8 pН

Melting point/freezing point °C Not Applicable Boiling point/boiling range °C Not Applicable Flash point °C No data available

Evaporation rate : Not Applicable

: Not applicable for liquids Flammability (solid, gas) : No data available

Upper/lower flammability or

explosive limits Vapor pressure kPa

Vapor density : No data available

Relative density : 1.105 - 1.005

Solubility(ies) mg/l Not Applicable

Partition Coefficient See Section 12 for more

(n-octanol/water) Log Pow information Autoignition temperature °C : No data available Decomposition temperature °C No data available : ----

Kinematic viscosity mm2/s 40 °C : Not an explosive **Explosive properties**

Oxidizing properties : No data available

Other Information

Bulk density g/ml :

Surface tension mN/m No data available

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

 Oral LD50 mg/kg
 : ~1700
 Rat

Dermal LD50 mg/kg : > 4000 Rat

Inhalation LC50 mg/l/4h : > 4.61 Rat Maximum attainable

concentration

Skin corrosion/irritation: Non-irritating to the skinRabbitSerious eye damage/eye irritation: Not irritating to eyesRabbit

Respiratory/skin sensitization : Not a sensitizer

Chronic toxicity

Germ cell mutagenicity

Chemical Name

Terbutryn : No data available

Carcinogenicity

Chemical Name

Terbutryn : No data available

Reproductive toxicity .

Chemical Name

Terbutryn : No data available

STOT - single exposure

Chemical Name

Terbutryn : No data available

STOT - repeated exposure

Chemical Name

Terbutryn : No data available

Aspiration hazard Chemical Name

Terbutryn : No data available

Section 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity

Acute toxicity Values Species Method Remarks
Fish 96-hour LC50 mg/l : ---- No data available

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Crustacea 48-hour EC50 mg/l No data available ----Algae 72-hour EC50 mg/l No data available Other plants EC50 mg/l No data available

Terrestrial Toxicity Birds Oral LD50 mg/kg

Chemical Name

Terbutryn Mallard duck : > 4640

Bees Oral LD50 µg/bee

Chemical Name

Terbutryn : > 225

Persistence and degradability

Abiotic Degradation Values Method Remarks

Water DT50 days **Chemical Name**

Terbutryn No data available

Soil DT50 days **Chemical Name**

Terbutryn : 9 - 47 Field

Biodegradation Chemical Name

Terbutryn : No data available

Bioaccumulative potential

Partition Coefficient Values Method Remarks

(n-octanol/water) Partition Coefficient (n-octanol/water) Log

Pow

Chemical Name

Terbutryn : 3.65 25 °C

Bioconcentration factor (BCF)

Chemical Name

Terbutryn No data available

Mobility in soil

Adsorption/Desorption Method Values Remarks

Chemical Name

Terbutryn : 392 - 605 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 Disposal should be in accordance with applicable regional, national and local laws and

regulations. products

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

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. (Terbutryn)

Hazard Class Packing Group Ш Marine pollutant Yes

Special precautions for user

RID/ADR

UN/ID No * 3082

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

Hazard Class 9 Ш **Packing Group Environmental hazard** Yes

Special precautions for user

ICAO/IATA

UN/ID No * 3082

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

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

Special precautions for user

Transport in bulk according to

Annex II of MARPOL 73/78 and the

Not Applicable

IBC Code



Section 15: REGULATORY INFORMATION

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

Section 16: OTHER INFORMATION

Revision Note Changes made to the last version are labeled with this sign ***.

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