

SAFETY DATA SHEET

Diflufenican 500 SC

 Revision Date
 25-May-2015
 Version
 1
 Product No
 HRB00869-S

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 H-0147-12732-RAII / 12732 / AG-D1-500 SC

Product identifier

Diflufenican 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

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: HAZARD IDENTIFICATION

Classification of the substance or mixture

Acute aquatic toxicity

Chronic aquatic toxicity

Category 1 - (H400)

Category 1 - (H410)

Label Elements

Hazard pictograms



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Signal word Warning

Hazard Statements H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements P102 - Keep out of reach of children

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

Other Hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Mixture</u>

Chemical Name	Weight-%	CAS No
Diflufenican	40-44	83164-33-4

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 aiderUse 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

Note to physicians Treat symptomatically.

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 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

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration No information available.

(PNEC)

Not Applicable

Not Applicable

Not Applicable

information

Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Body ProtectionTight sealing safety goggles.
Suitable protective clothing.

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

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

CIPAC MT 75.3

entering drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

PropertyValuesMethodRemarksAppearancePhysical state: Liquid

Color : white
Odor : Acid Slight
Odor threshold : No data available

pH : 6.5 - 9.5

Melting point/freezing point °C : ----

Boiling point/boiling range °C : No data available

Flash point °C : > 100 EEC A.9

Evaporation rate : Not Applicable

Flammability (solid, gas) : Not applicable for liquids
Upper/lower flammability or : No data available

Upper/lower flammability or : No data availab explosive limits

Vapor pressure kPa : ----

Vapor density : No data available

Relative density : 1.14 - 1.24 EEC A.3

Solubility(ies) mg/l : ----

Partition Coefficient : See Section 12 for more

(n-octanol/water) Log Pow
Autoignition temperature °C . 550 EEC A.15

Autoignition temperature °C : 550

Decomposition temperature °C : No data available

Kinematic viscosity mm2/s 40 °C : 1706

OECD 114

Explosive properties : Not an explosive EEC A.14
Oxidizing properties : Not oxidizing EEC A.21

Other Information

 Bulk density g/ml
 : --- Not Applicable

 Surface tension mN/m
 : 35.7
 EEC A.5
 1%: 25 °C

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 > 2000 **OECD 401** Rat Dermal LD50 mg/kg : > 2000 Rat **OECD 402** OECD 403 Inhalation LC50 mg/l/4h **:** > 1.43 Maximum Rat attainable

concentration

Skin corrosion/irritation: Non-irritating to the skinRabbitOECD 404Serious eye damage/eye irritation: Not irritating to eyesRabbitOECD 405Respiratory/skin sensitization: Not a skin sensitizerGuinea pigOECD 406

Chronic toxicity

Germ cell mutagenicity

Chemical Name

Diflufenican : Not classified

Carcinogenicity

Chemical Name

Diflufenican : Not Carcinogenic

Reproductive toxicity .

Chemical Name

Diflufenican : Not toxic for the reproductive system

STOT - single exposure

Chemical Name

Diflufenican : No data available

STOT - repeated exposure

Chemical Name

Diflufenican : No data available

Aspiration hazard Chemical Name

Diflufenican : No data available

Section 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity

Acute toxicity Values Species Method Remarks

Fish 96-hour LC50 mg/l Rainbow trout **OECD 203** > 100 Crustacea 48-hour EC50 mg/l Daphnia magna : > 100 **OECD 202** Algae 72-hour EC50 mg/l 0.00174 S. capricornutum **OECD 201**

Other plants EC50 mg/l Not available

Terrestrial Toxicity Birds Oral LD50 mg/kg

Chemical Name

Diflufenican : > 2150 Bobwhite quail

Bees Oral LD50 µg/bee

Chemical Name

Apis mellifera Diflufenican : > 100 **EPPO 170**

Persistence and degradability

Values <u>Method</u> Remarks

Abiotic Degradation Water DT50 days **Chemical Name**

Diflufenican : 1-5 BBA IV: 5-1 approx

Soil DT50 days Chemical Name

Diflufenican EPA / SETAC : 128

Biodegradation Chemical Name

Diflufenican : No information available

Bioaccumulative potential

Partition Coefficient Values Method Remarks

(n-octanol/water) Log Pow

Chemical Name

OECD 117 20 ° C Diflufenican : 4.2

Bioconcentration factor (BCF)

Chemical Name

Diflufenican : 1276 - 1596 **OECD 305**

Mobility in soil

Adsorption/Desorption <u>Values</u> Method Remarks **Chemical Name**

Diflufenican 3417 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.

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

was used.

Section 14: TRANSPORTATION INFORMATION

IMDG/IMO

UN/ID No 3082

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

Hazard Class Ш **Packing Group** Marine pollutant Yes

Special precautions for user

RID/ADR

3082 **UN/ID No**

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

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

Special precautions for user

ICAO/IATA

UN/ID No 3082

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

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

Not Applicable



Section 15: REGULATORY INFORMATION

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

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