

# SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Annex II

Hurricane

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 2
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# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

# 1.1. Product identifier

Hurricane

Synonyms Diflufenican 500 SC

Pure substance/mixture Mixture

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

Recommended Use Herbicide

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier Address ADAMA Agricultural Solutions UK Ltd

Unit 15, Thatcham Buisness Village Colthrop Way, Thatcham Berkshire RG19 4LW, UK: 01635 860555

Fax: 01635 861555

For further information, please contact

Email address ukenquiries@adama.com

1.4. Emergency telephone number

**Emergency Telephone** National Chemical Emergency Centre (UK):

Tel: 01865 407333 (24 hours)

# **Section 2: HAZARD IDENTIFICATION**

# 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute aquatic toxicity Category 1 - (H400)
Hazardous to the Aquatic Category 1 - (H410)

**Environment - Chronic Hazard** 

Classification according to Directive 67/548/EEC or 1999/45/EC

Full text of R-phrases: see section 16

N; R50-53

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#### 2.2. Label elements

#### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

#### Hazard pictograms



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

EUH208 - Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction **EU Specific Hazard Statements** 

EUH401 - To avoid risks to human health and the environment, comply with the instructions

for use

SP1 - Do not contaminate water with the product or its container Additional phrases for PPP

2.3. Other hazards No information available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixture

Chemical Name	Weight- %	CAS No	EC No	Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Classification according to 67/548/EEC	REACH Registration Number
Diflufenican	40-44	83164-33-4	ı	616-032-00-9	Aquatic Chronic 3 (H412)	R52-53	-

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

# **Section 4: FIRST AID MEASURES**

#### 4.1. Description of 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.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms None known

4.3. Indication of any immediate medical attention and special treatment needed

# **Section 5: FIRE-FIGHTING MEASURES**

#### 5.1. Extinguishing media

#### Suitable Extinguishing Media

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

#### **Unsuitable Extinguishing Media**

No information available.

#### 5.2. Special hazards arising from the substance or mixture

No specific hazard known.

# 5.3. 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**

#### 6.1. 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.

#### 6.2. 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.

# 6.3. Methods and material for containment and cleaning up

#### Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

# 6.4. Reference to other sections

#### **Other Information**

See also section 8,13

# **Section 7: HANDLING AND STORAGE**

### 7.1. 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.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

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

#### 7.3. 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

#### 8.1. Control parameters

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration** 

(PNEC)

No information available.

8.2. Exposure controls

Ensure adequate ventilation, especially in confined areas. **Engineering Controls** 

Personal protective equipment

Eye/face protection **Body Protection** 

Tight 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

entering drains.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

Property Values Method Remarks

**Appearance** Physical state Liquid Color white Odor Acid Slight Odor threshold No data available

6.5 - 9.5 Ha

CIPAC MT 75.3 Melting point/freezing point °C

Boiling point/boiling range °C No data available

Flash point °C > 100 FFC A 9

**Evaporation rate** Not Applicable

Not applicable for liquids Flammability (solid, gas)

Upper/lower flammability or No data available

explosive limits

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Not Applicable

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information

Vapor pressure kPa Not Applicable

Vapor density No data available

Relative density 1.19

EEC A.3

Solubility(ies) mg/l Not Applicable **Partition Coefficient** See Section 12 for more

(n-octanol/water) Log Pow

Autoignition temperature °C : 550 **EEC A.15** 

Decomposition temperature °C : No data available

**OECD 114** Kinematic viscosity mm2/s 40 °C : 1706 **EEC A.14 Explosive properties** : Not an explosive **EEC A.21 Oxidizing properties** : Not oxidizing

9.2. Other information

Bulk density g/ml Not Applicable Surface tension mN/m 35.7 EEC A.5 1%: 25 °C

Minimum ignition energy (MIE) mJ

# Section 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

Not available.

#### 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

None under normal processing.

#### 10.4. Conditions to avoid

Heat, flames and sparks.

# 10.5. Incompatible materials

No information available

# 10.6. Hazardous decomposition products

# Section 11: TOXICOLOGY INFORMATION

# 11.1. Information on toxicological effects

Acute toxicity

Values Species Method Remarks Oral LD50 mg/kg > 2000 Rat **OECD 401** Dermal LD50 mg/kg > 2000 Rat **OECD 402** Inhalation LC50 mg/l/4h > 1.43 Rat **OECD 403** Maximum

attainable

concentration

: Non-irritating to the skin Rabbit **OECD 404** Skin corrosion/irritation 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** 

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**

#### 12.1. Toxicity

#### **Aquatic toxicity**

Acute toxicity	<u>Values</u>	Species_	<u>Method</u>	<u>Remarks</u>
Fish 96-hour LC50 mg/l	: > 100	Rainbow trout	OECD 203	

Crustacea 48-hour EC50 mg/l : > 100 Daphnia magna 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** 

Diflufenican : > 100 EPPO 170

12.2. Persistence and degradability

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

Water DT50 days Chemical Name

Diff. ( :

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

Soil DT50 days Chemical Name

Diffufenican : 128 EPA / SETAC

Biodegradation Chemical Name

Diflufenican : No information available

12.3. Bioaccumulative potential

Remarks

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(n-octanol/water) Log Pow

Chemical Name

**Partition Coefficient** 

Diflufenican : 4.2 OECD 117 20 °C

**Bioconcentration factor (BCF)** 

**Chemical Name** 

Diflufenican : 1276 - 1596 OECD 305

Values

12.4. Mobility in soil

Adsorption/Desorption <u>Values</u> <u>Method</u> <u>Remarks</u>

**Chemical Name** 

Diflufenican : 3417 Koc

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

No information available.

# **Section 13: DISPOSAL CONSIDERATIONS**

13.1. Waste treatment methods

Waste from residues/unused

products

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

Method

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

**14.1 UN/ID No** 3082

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

14.3 Hazard Class914.4 Packing GroupIII14.5 Marine pollutantYes

14.6 Special precautions for user

RID/ADR

**14.1 UN/ID No** 3082

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

14.3 Hazard Class 9
14.4 Packing Group III
14.5 Environmental hazard Yes

14.6 Special precautions for user

ICAO/IATA

**14.1 UN/ID No** 3082

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

14.3 Hazard Class914.4 Packing GroupIII14.5 Environmental hazardYes

14.6 Special precautions for user

14.7 Transport in bulk according to Not Applicable

14.7 Transport in bulk according to Not Applicable Annex II of MARPOL 73/78 and the IBC Code



# Section 15: REGULATORY INFORMATION

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

#### 15.2. Chemical safety assessment

A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

# **Section 16: OTHER INFORMATION**

#### Full text of R-phrases referred to under sections 2 and 3

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

#### Full text of H-Statements referred to under sections 2 and 3

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

**Revision Note** 

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### 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**