

SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1272/2008 and 1999/45/EC or 67/548/EEC.

FLYFLO

Revision Date 23-September-2021 Version 2 Product No JTA/UK/016

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

1.1. Product identifier

FLYFLO

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 JT Agro Ltd

126-134 Baker Street, London W1U 6UE, UK.

Tel: +44 1628 421 890 Fax: +44 1628 421623

For further information, please contact

Email address jaitej@jtagro-cropthetics.co.uk

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

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

N, Dangerous for the environment

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

Full text of R-phrases: see section 16

2.2. Label elements

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



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 a licensed hazardous-waste

disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

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

reaction.

EUH401 To avoid risks to human health and the environment

comply with the instructions for use.

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

container

Hazardous components which must be listed on the label Diflufenican

1,2-Benzoisothiazolin-3-one

2.3. Other hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight- w/w%	CAS No	Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Classification according to 67/548/EEC	M-Factor	REACH Registration Number
Diflufenican	40-44	83164-33-4	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 Have the product container, label or Material Safety Data Sheet with you

when calling an emergency number, a poison control centre or physician, or

going for treatment.

Inhalation Move the victim to fresh air. If breathing is irregular or stopped, administer

artificial respiration. Keep patient warm and at rest. Call a physician or

poison control centre immediately.

Skin Contact Take off all contaminated clothing immediately. Wash off immediately with

plenty of soap and water. If skin irritation persists, call a physician. Wash

contaminated clothing before re-use.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least

15 minutes. Remove contact lenses. Immediate medical attention is

required

Ingestion If swallowed, seek medical advice immediately and show this container or

label. Do NOT induce vomiting. Rinse mouth.

Self-protection of the first aiderUse personal protective equipment as required.

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

Symptoms No information available

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

Medical advice There is no specific antidote available. Treat symptomatically.

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

Wear full protective clothing and self-contained breathing apparatus. Do not allow run-off from firefighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required.

Refer to protective measures listed in sections 7 and 8

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/ national regulations (see section 13).

If the product contaminates rivers and lakes or drains inform respective authorities

6.4. Reference to other section

Reference to protective measures listed in section 7 and 8.

Refer to disposal consideration listed in section 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8. Use only with adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Registered Crop Protection products: For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Derived No Effect Level (DNEL)No information availablePredicted No Effect Concentration (PNEC)No information available

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Protective measuresThe use of technical measures should always have priority over the

use of personal protective equipment. When selecting personal

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protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate

standards.

Respiratory Protection

A combination gas, vapour and particulate respirator may be necessary until effective technical measures are installed. Protection provided by air purifying respirators is limited. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances when air-purifying respirators may not provide adequate protection

Hand protection Chemical resistant gloves should be used. Gloves should be certified to

an appropriate standard. Gloves should have a minimum breakthrough

time that is appropriate to the duration of exposure.

If eye contact is possible, use tight-fitting chemical safety goggles and Eye protection

a face shield.

Skin and body protection Assess the exposure and select chemical resistant clothing based on

the potential for contact and the permeation/penetration

characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots

etc.). Wear as appropriate: impervious protective suit.

General hygiene considerations When using do not eat drink or smoke. Wash contaminated clothing

before re-use.

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

<u>Property</u>	<u>values</u>	ivietnoa	<u>kemarks</u>
Appearance			
Physical State	Liquid		
Colour	White to light grey/beige		
Odour	Mildly acidic		
Odour threshold	No data available		
pH	6.5 – 9.5	CIPAC MT 75.3	
Melting point/freezing point °C	N/A		Not applicable

Boiling point/boiling range °C No data available

Flash point °C > 100 EEC A9

Evaporation rate Not applicable Flammability (solid, gas) Not Applicable for liquid Upper/lower flammability or No data available

explosive properties Vapour pressure kPa

Vapour density

Relative density Solubility in other solvent

Partition Coefficient (noctanol/water) Log Pow

Autoignition temperature °C Decomposition temperature °C Kinematic viscosity mm2/s 40 °C

Explosive properties Oxidizing properties

No data available

1.19 g/ml

No data available

550 No data available

1706 Not an explosive

No oxidation

Not Applicable

Not Applicable See Section 12 for more

information

9.2. Other information

None

Section 10: STABILITY AND REACTIVITY

OECD 109

EEC A. 15

OECD 114

EEC A. 14

EEC A. 21

10.1. Reactivity

Not available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None known under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

No information available

10.6. Hazardous decomposition products

Combustion or thermal decomposition many evolve toxic and irritant vapors.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Acute toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Acute oral LD50 mg/kg	>2000	Rat	OECD 401	
Acute dermal LD50 mg/kg	> 4000	Rat	OECD 402	
Acute Inhalation LC50 mg/l/4h	> 1.43	Rat	OECD 403	Maximum attainable concentration
Skin corrosion/irritation	Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	Not irritating to eyes	Rabbit	OECD 405	
Respiratory/skin sensitization	Not a skin sensitizer	Guinea pig	OECD 406	

Remarks

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>	<u>Species</u>	Method
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 No data available

Terrestrial toxicity

Birds-Oral LD50 mg/l 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

Diflufenican 1-5 days BBA IV: 5-1 Approx.

Soil DT 50 days

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Chemical Name

Diflufenican 128 days EPA/SETAC

Biodegradation Chemical Name

Diflufenican No Information available

12.3. Bio-accumulative potential

Partition Coefficient <u>Values</u> <u>Method</u> <u>Remarks</u>

(n-octanol/water) Log Pow

Chemical Name

Diflufenican 4.2 OECD 107 21 °C

Bioconcentration factor (BCF)

Chemical Name

Diflufenican 1276-1596 OECD 305

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 product Do not contaminate ponds, waterways or ditches with chemical or used

container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of

in compliance with local regulations

Contaminated packaging Empty remaining contents. Triple rinse containers. Empty containers should be

taken for local recycling or waste disposal. Do not re-use empty containers

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)

14.3Transport Hazard Class (es)914.4Packing GroupIII14.5Marine pollutantYes

14.6 Special precautions for user

RID/ADR

14.1 UN/ID No 3082

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

14.3Transport Hazard Class (es)914.4Packing GroupIII14.5Marine pollutantYes

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 Transport Hazard Class (es)
14.4 Packing Group
14.5 Marine pollutant
14.6 Special precautions for user
None

14.7 Transport in bulk according Not a

to Annex II of MARPOL 73/78

and the IBC Code

Not applicable



Section 15: REGULATORY INFORMATION

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

GHS-Labelling



Signal word Warning

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

Precautionary Statements P102 Keep out of reach of children

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disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

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

reaction.

EUH401 To avoid risks to human health and the environment,

comply with the instructions for use.

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

container

15.2. Chemical safety assessment

A chemical safety assessment according to regulation (EC) No. 1272/2008 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

Further information

Product Name: FLYFLO

Approval number: MAPP 19242

Use plant protection products safely. Always read the label and product information before use.

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

Harmful to aquatic organisms; may cause long term adverse effects in the aquatic environment.

R52/53

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008 and and 1999/45/EC or 67/548/EEC.

Disclaimer

The information provided in this 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

