

Material Safety Data Sheet

According to Regulation (EC) No. 1907/2006

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1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name: Pedile (Diflufenican 500 g/L SC)

UFI : R88Y-WC28-P08R-NDRA

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

Crop protection product for professional use. Agriculture.

Herbicide

1.3 Details of the manufacturer of the safety data sheet

Manufacturer: YC Agro Limited

Address: Mynshull House, 78 Churchgate, Stockport, Cheshire, England SK1 1YJ, UK

Tel No.: +44 7548 954737

E-mail: director@ycagro.com, ycagro@yanchengchem.com

1.4 Emergency telephone number

National Poisons Information Centre Beaumont Hospital

Address: PO Box 1297 Beaumont Road 9 Dublin

Tel No.: +353 1 809 2566 (Healthcare professionals 24/7)

+353 1 809 2166 (public, 8am - 10pm, 7/7)

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Short-term (acute) aquatic hazard - Category 1 - H400

Long-term (chronic) aquatic hazard -Category 1 - H410

2.2 Label elements

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

Hazard label for supply/use required.

Pictograms



Signal word

Warning

Hazard Statement (s)

H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P102 Keep out of reach of children
P273 Avoid release to the environment.
P391 Collect spillage.
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.

EUH-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 the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

2.3 Other hazards

The product does not contain any substance(s) classified as PBT or vPvB.

3. COMPOSITION INFORMATION

3.1 Substances

Not applicable.

3.2 Mixtures

Chemical nature

Suspension concentrate (SC)

Diiflufenican 500 g/L

Hazardous components

Hazard statements according to Regulation (EC) No. 1272/2008

Name	CAS-No. EC-No. Index No.	Classification (EC)1272/2008 (CLP)	Concentration (%)

Diffufenican	83164-33-4 617-446-2 616-032-00-9	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	40 - 44
1,2-Benzisothiazolin-3-one	2634-33-5 220-120-9 613-088-00-6	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Acute Tox. 4 (H302) Aquatic Acute 1 (H400)	< 0.5

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

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.

If inhaled

Move the victim to fresh air.

In case of skin contact

Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

If swallowed

Clean mouth with water and drink afterwards plenty of water.

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

Treatment

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

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

Small fire

Dry chemical, CO₂, water spray or regular foam.

Large fire

Do not scatter spilled material with high pressure water streams

Dike fire-control water for later disposal
Water spray, fog or regular foam
Move containers from fire area if you can do it without risk

Unsuitable extinguishing media

Do not scatter spilled material with high pressure water streams.

5.2 Special hazards arising from the substance or mixture

No information available.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Precautions

Ensure adequate ventilation. Contact may cause burns to skin and eyes. Runoff from fire control may cause pollution. Fire may produce irritating, corrosive and/or toxic gases. Inhalation of material may be harmful. Inhalation of Asbestos dust may have a damaging effect on the lungs. Some liquids produce vapors that may cause dizziness or suffocation.

6.2 Environmental precautions

See Section 12 for additional Ecological Information.

6.3 Methods and materials for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4 Reference to other sections

For disposal considerations see section 13.

Refer to protective measures listed in sections 8.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3 Specific end use(s)

For proper and safe use of this product, please refer to the approval conditions laid down on the product

label.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

No information available

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection

Handle in accordance with good industrial hygiene and safety practice.

Hand protection

Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact (recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm).

Eye protection

Tightly fitting safety goggles.

Skin and body protection

Use suitable protective clothing and equipment if required, such as safety goggles certified to EN 166, gloves certified to EN 374, protective boots certified to EN 13832, and/or a water repellent woven coverall with 65% polyester and 35 % cotton.

Protective measures

The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colour	White
Odour	Acid Slight
Odour threshold	No data available
pH	6.5-9.5
Melting point	No data available
Freezing point	No data available
Initial boiling point and boiling range	No data available

Flash point	> 100 °C
Evaporation rate	No data available
Flammability (solid,gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	Not applicable
Vapour density	No data available
Relative density	1.14 - 1.24
Density	No data available
Solubility (ies)	Not applicable
Partition coefficient: n-octanol/water	4.2
Auto-ignition temperature	550 °C
Decomposition temperature	No data available
Viscosity	
Viscosity, dynamic	No data available
Viscosity, kinematic	1706 mm ² /s 40°C
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

None known based on information supplied.

10.5 Incompatible materials

None known based on information supplied.

10.6 Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

LD50 – Rat – > 2000 mg/kg

Method OECD 401

Acute inhalation toxicity

LC50 – Rat – > 1.43 mg/kg

Method: OECD 403

Acute dermal toxicity

LD50 – Rat – >2000 mg/kg

Method: OECD 402

Skin corrosion/irritation

Species: Rabbit

Result: Non-irritating to the skin

Method: OECD 404

Serious eye damage/eye irritation

Species: Rabbit

Result: Not irritating to eyes

Method: OECD 405

Sensitization

Species: Guinea pig

Result: Not a skin sensitizer.

Method: OECD 406

Germ cell mutagenicity

Diflufenican: Not classified

Carcinogenicity

Diflufenican: Not Carcinogenic

Reproductive toxicity

Diflufenican: Not toxic for the reproductive system

STOT - Single Exposure

Chemical name

Diflufenican: Not classified

STOT - Repeated Exposure

Diflufenican: Not classified

Aspiration hazard

Diflufenican: Not classified.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Acute toxicity

Toxicity to fish

LC50 (*Oncorhynchus mykiss*): > 100 mg/l

Exposure time: 96 h

Method: OECD 203

Toxicity to Crustacea

EC50 (*Daphnia magna*): > 100 mg/l

Exposure time: 48 h

Method: OECD 202

Toxicity to algae/aquatic plants

ErC50 (*S. capricornutum*): 0.00174 mg/l

Exposure time: 96 h

Method: OECD 201

Chronic aquatic toxicity

Toxicity to fish

NOEC: No data available

Toxicity to Crustacea

NOEC: No data available

Toxicity to algae/aquatic plants

NOEC (*Selenastrum capricornutum*): 0.000939 mg/l

Method: OECD 201

Terrestrial Toxicity

Toxicity to birds

Oral LD50 (*Bobwhite quail*): > 2150 mg/l

Toxicity to bees

Oral LD50 (*Apis mellifera*): > 100 µg/bee

Method: EPPO 170

12.2. Persistence and degradability**Abiotic Degradation**

Water DT50 days

Diffusion: 1-5

Method: BBA IV: 5-1

Soil DT50 days
Diflufenican: 128
Method: EPA / SETAC

Biodegradation
Diflufenican: No information available

12.3 Bioaccumulative potential (n-octanol/water) Log Pow

Diflufenican: 4.2
Method: OECD 117

Bioconcentration factor (BCF)

Diflufenican: 1276 - 1596
Method: OECD 305

12.4 Mobility in soil

Adsorption/Desorption

Diflufenican: 3417
Remarks: 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

Endocrine disrupting properties

No information available.

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Product:

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

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.

14. TRANSPORT INFORMATION

ADR/RID

14.1 UN number	UN 3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diflufenican)
14.3 Transport hazard class(es)	9
14.4 Packaging Group	III
14.5 Environmental Hazardous	YES

IMDG

14.1 UN number	UN 3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diflufenican)
14.3 Transport hazard class(es)	9
14.4 Packaging Group	III
14.5 Environmental Hazardous	YES

IATA

14.1 UN number	UN 3082
14.2 Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Diflufenican)
14.3 Transport hazard class(es)	9
14.4 Packaging Group	III
14.5 Environmental Hazardous	YES

15. REGULATORY INFORMATION

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

15.1.1. National regulations

Trade name/ designation: Not Applicable

Registration Number(s): Not Applicable

Date: Not Applicable

Comply with trade association/occupational health regulations.

Comply with regulation (EC) No 1107/2009 concerning the placing of plant protection products on the market.

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006

(REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

15.2 Chemical safety assessment

A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

16. OTHER INFORMATION

Full text of H-Statements

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Disclaimer:

The manufacture provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. The manufacture makes no representations or express or implied, including without limitation any warranties of merchantability fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, the manufacture will not be responsible for damages resulting from use of or reliance upon this information.
