

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name: ANEMOI

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

Relevant identified uses of the substance or mixture

Plant protection product for professional use. Agriculture.

Fungicide

1.3 Details of the supplier of the safety data sheet

Address

YC Agro Limited- United Kingdom

Located at 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

For further advice for medical professionals:

The National Poisons Information Service: +44 7548 954737

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin sensitisation, Category 1	H317
Reproductive toxicity, Category 2	H316d
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410

Adverse physicochemical, human health and environmental effects

Harmful if inhaled. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child.

Very toxic to aquatic life with long lasting effects

2.2 Label elements

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

Pictograms



Signal word

Warning

Hazard Statement (s)

H317	May cause an allergic skin reaction.
H361d	Suspected of damaging the unborn child
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P102	Keep out of reach of children
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing.
P308+P313	IF exposed or concerned: Get medical advice/attention
P302+P352	IF ON SKIN: Wash with plenty of soap and water
P332+P313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.
P501	Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for empty triple rinsed clean containers which can be disposed of as nonhazardous waste.

EUH-statements

EUH066	Repeated exposure may cause skin dryness or cracking
EUH208	Contains 1,2-Benzisothiazolin-3-one. (Proxel GXL). May cause allergic reactions
EUH401	To avoid risks to human health and the environment, comply with the instructions for use

2.3 Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

3. COMPOSITION INFORMATION

3.1 Substances

Not applicable.

3.2 Mixtures

No	Name	Product identifier (CAS-No.)	Classification (EC)1272/2008 (CLP)	Concentration (%)
1	Fluazinam (ISO)	(CAS-No.)	Acute Tox. 4 (Inhalation),	25 – 50

		79622-59-6 (EC-No.) 612-287-00-5	H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Repr. 2, H361d Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	
2	Poly(oxy-1,2-ethanediyl), .alpha.-sulf o-omega.-[2,4,6-tris(1-phenylethyl)p henoxy]-, ammonium salt	(CAS-No.) 119432-41-6	Eye Irrit. 2, H319 Aquatic Chronic 3, H412	1 – 5
3	Quarz (SiO2)	(CAS-No.) 14808-60-7 (EC-No.) 238-878-4	Not classified	< 0,1
4	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3- one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	< 0,05

Specific concentration limits:

Name	Product identifier	Specific concentration limits
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3- one	(CAS-No.)2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	(0,05 ≤ C < 100) Skin Sens. 1, H317

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a doctor/medical service if you feel unwell.

If inhaled

Remove person to fresh air and keep comfortable for breathing. Respiratory problems: consult a doctor/medical service.

In case of skin contact

Wash skin with mild soap and water. If case of redness or irritation, call a doctor.

In case of eye contact

Rinse immediately with plenty of water. Do not apply (chemical) neutralizing agents. Consult an ophthalmologist if irritation persists

First-aid measures after ingestion

Do not induce vomiting. Do not give an unconscious person anything to drink. Consult a doctor/medical service if you feel unwell. Rinse mouth out with water

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact: May cause an allergic skin reaction

Symptoms/effects after eye contact: May cause slight irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

All extinguishing agents can be used.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire :

Toxic and corrosive vapours may be released. Nitrous fumes. hydrogenchloride. Hydrofluoric Acid. Carbon oxides (CO, CO₂). Sulphur oxides

5.3 Advice for firefighters

Firefighting instructions:

Dilute toxic gases with water spray. Contain the extinguishing fluids by bunding (the product is hazardous for the environment).

Protection during firefighting:

Gloves. Full protective flameproof clothing. Heat/fire exposure: compressed air/oxygen apparatus. Gas-tight suit.

Other information:

Do not dispose of fire-fighting water in the environment.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General measures: Evacuate area.

For non-emergency personnel

Protective equipment: Concerning personal protective equipment to use, see section 8

Emergency procedures: Avoid contact with skin and eyes.

For emergency responders

Protective equipment: Protective clothing. Protective gloves.

6.2 Environmental precautions

Stop leak if safe to do so. Contain leaking substance, pump over in suitable containers. Do not allow

uncontrolled discharge of product into the environment. Do not flush into surface water or sewer system.

Contain the spilled material by bunding.

6.3 Methods and materials for containment and cleaning up

For containment: Take up liquid spill into absorbent material, e.g.: sand/earth. Shovel into suitable and closed container for disposal. Carefully collect remainder.

Methods for cleaning up: Clean contaminated surfaces with an excess of water.

Other information: Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections

For further information refer to section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling: Do not get in eyes, on skin, or on clothing. Do not discharge into drains or the environment.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Separate working clothes from town clothes. Launder separately.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures: The floor of the depot should be impermeable and designed to form a water-tight basin.

Storage conditions: Store in a dry, cool area. Protect from heat and direct sunlight. Keep the container hermetically sealed. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.

Special rules on packaging: Store in original container.

7.3 Specific end use(s)

No additional information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 National occupational exposure and biological limit values

Quarz (SiO ₂) (14808-60-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Silica crystalline (Quartz)
IOEL TWA	< 0,05 mg/m ³ Silica, respirable crystalline
Notes	(Year of adoption 2003)
Regulatory reference	SCOEL Recommendations

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2 Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation

8.2.2. Personal protection equipmen

8.2.2.1. Eye and face protection

Eye protection: Safety glasses. Face shield

8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: Protective gloves. Breakthrough time : refer to the recommendations of the supplier

Other skin protection

Materials for protective clothing: PVC or other plastic material or natural rubber gloves

8.2.2.3. Respiratory protection

Respiratory protection: [In case of inadequate ventilation] wear respiratory protection. High gas/vapour concentration: gas mask with filter type A

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls: Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid (suspension concentrate)
Colour	Light yellow
Odour	odourless
Odour threshold	No data available
pH	5.4 – 6.56 concentration: 1%w/v
Melting point	Not applicable
Freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	Not applicable
Evaporation rate	No data available
Flammability (solid,gas)	Not applicable
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	Not Applicable
Density	1,228 – 1,29 g/cm ³ (20 °C - ambient temperature)

Solubility (ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No self-igniting
Decomposition temperature	No data available
Viscosity	
Viscosity, dynamic	43,8 – 92,8 mPa·s (40 °C; 258 - 64.5/s)
Viscosity, kinematic	No data available
Explosive properties	Not explosive
Oxidizing properties	Non oxidizing.

10. STABILITY AND REACTIVITY

10.1 Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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

Avoid formation of vapours.

10.5 Incompatible materials

No information available

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/200

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Product

LD50 oral rat: > 2000 mg/kg bodyweight

LD50 dermal rat: > 2000 mg/kg bodyweight

LC50 Inhalation – Rat: > 1,15 mg/l/4h (OECD 403)

Skin corrosion/irritation : Not classified

Additional information :Based on available data, the classification criteria are not met Not irritating to rabbits on cutaneous application

Serious eye damage/irritation : Not classified

Additional information : Based on available data, the classification criteria are not met Slightly irritating to rabbits on ocular application

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Additional information : Guinea pig

Germ cell mutagenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Fluazinam (ISO) (79622-59-6)

NOAEL (chronic, oral, animal/male, 2 years): 1,9 mg/kg bodyweight

Reproductive toxicity : Suspected of damaging the unborn child.

Fluazinam (ISO) (79622-59-6)

NOAEL (animal/male, F0/P): 1,5 mg/kg bodyweight (day; rat)

NOAEL (animal/male, F1): 7,26 mg/kg (day; rat)

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Fluazinam (ISO) (79622-59-6)

NOAEL (oral, rat, 90 days): 4,1 mg/kg bodyweight/day

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

11.2. Information on other hazards

No additional information available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.

Hazardous to the aquatic environment, long-term (chronic) : Very toxic to aquatic life with long lasting effects.

Product:

LC50 – Fish: 0,16 mg/l (96 H; Oncorhynchus mykiss; OECD 203)

EC50 – Crustacea: 0,31 mg/l (48 H; Daphnia magna; OECD 202)

ErC50 algae: > 5,7 mg/l (72 H; Pseudokirchneriella subcapitata; OECD 201)

Fluazinam (ISO) (79622-59-6)

NOEC chronic fish: 0,0029 mg/l (278d - Pimephales promelas)

NOEC chronic crustacea: 0,0125 mg/l (21d - Daphnia magna)

12.2 Persistence and degradability

Fluazinam (ISO) (79622-59-6)

Persistence and degradability: Not readily biodegradable.

12.3 Bioaccumulative potential

Fluazinam (ISO) (79622-59-6)

BCF – Fish: 1090 (Lepomis macrochirus)

Partition coefficient n-octanol/water (Log Pow): 4,03 (25 °C; pH 5.5-7)

12.4 Mobility in soil

Fluazinam (ISO) (79622-59-6)

Partition coefficient n-octanol/water (Log Koc): 3,29

12.5 Results of PBT and vPvB assessment

Product:

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

12.6 Endocrine disrupting properties

No additional information available

12.7 Other adverse effects

No additional information available

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Waste treatment methods:

Do not dispose of with domestic waste.

Product/Packaging disposal recommendations:

Incinerate at a licensed installation. Dispose of in accordance with relevant local regulations.

European List of Waste (LoW) code :

02 01 08* - agrochemical waste containing dangerous substances

15 01 10* - packaging containing residues of or contaminated by dangerous substances

14. TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
Special provision(s) applied : 375	Special provision(s) applied : 969	Special provision(s) applied : A197	Special provision(s) applied : 375	Special provision(s) applied : 375

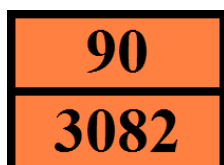
These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1				
14.1. UN number or ID number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name				
ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam)	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam)	Environmental ly hazardous substance, liquid, n.o.s. (Fluazinam)	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam)	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam)
Transport document description				
UN 3082 ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam), 9, III, (-)	UN 3082 ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam), 9, III, MARINE POLLUTANT	UN 3082 Environmental ly hazardous substance, liquid, n.o.s. (Fluazinam), 9, III	UN 3082 ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam), 9, III	UN 3082 ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam), 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

14.6. Special precautions for user

Overland transport

Special provisions (ADR) : 274, 335, 375, 601

Orange plates:



EAC code: •3Z

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

Classification code (ADN) : M6

Number of blue cones/lights (ADN) : 0

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

15. REGULATORY INFORMATION

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

16. OTHER INFORMATION

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.
