

Safety data sheet according to UK REACH

Printing date 22.04.2026

Version number 1.4 (replaces version 1.3)

Revision: 22.04.2026

* SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: **KELSOS**

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

No further relevant information available.

Application of the substance / the mixture Fungicide

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

JT Agro Limited
Lees Mill Lane
Huddersfield, HD7 5QE, UK
Email: info@jtcrop.com

Further information obtainable from: product safety department

1.4 Emergency telephone number:

National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)
Healthcare Professionals: +353 (1) 809 2566 (24 hour service)
Posion center of the Charité Berlin: +49 30 19240
E-Mail: giftnotruf@charite.de

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Repr. 2 H361d Suspected of damaging the unborn child.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms



GHS08 GHS09

Signal word Warning

Hazard-determining components of labelling:

Fluazinam

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Hazard statements

H361d Suspected of damaging the unborn child.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P391 Collect spillage.

P405 Store locked up.

P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty containers which can be disposed of as non-hazardous waste.

Additional information:

EUH 208: Contains Fluazinam, 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

EUH 401: To avoid risks to human health and the environment, comply with the instructions for use.

2.3 Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable

vPvB: Not applicable

SECTION 3: Composition/information on ingredients**3.2 Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 79622-59-6	Fluazinam ⚠ Repr. 2, H361d; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=10); ⚠ Aquatic Chronic 1, H410 (M=10); ⚠ Acute Tox. 4, H302; ⚠ Acute Tox. 4, H332; Skin Sens. 1A, H317	≥25-≤50%
CAS: 119432-41-6	Poly(oxy-1,2-ethanediyl), α-sulfo-ω-[2,4,6-tris(1-phenylethyl) phenoxy]-, ammonium salt Aquatic Chronic 4, H413	≥0-≤2.5%
CAS: 2634-33-5 EINECS: 220-120-9 Reg.nr.: 01-2120761540-60	1,2-benzisothiazol-3(2H)-one ⚠ Acute Tox. 2, H330; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 ATE: LD50 oral: 450 mg/kg LC50 (4h) inhalative: 0.21 mg/l Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.036 %	<0.036%

Regulation (EC) No 648/2004 on detergents / Labelling for contents

preservation agents (BENZISOTHIAZOLINONE)

Additional information: For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****After skin contact:**

Remove soaked clothing immediately.

If skin irritation continues, consult a doctor.

After eye contact: Remove contact lenses.**After swallowing:** If symptoms persist consult doctor.**Information for doctor:** No antidote, symptomatic treatment.

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· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· ***Suitable extinguishing agents:***

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

· **5.3 Advice for firefighters**

· ***Protective equipment:*** No special measures required.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures** Not required

· **6.2 Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling** Open and handle receptacle with care.

· ***Information about fire - and explosion protection:*** Keep respiratory protective device available.

· **7.2 Conditions for safe storage, including any incompatibilities**

· ***Storage:***

· *Requirements to be met by storerooms and receptacles:* No special requirements.

· *Information about storage in one common storage facility:* Not required

· *Further information about storage conditions:* Keep container tightly sealed.

· *Storage class (TRGS):* 10

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· ***Ingredients with limit values that require monitoring at the workplace:***

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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· *Additional information:* The lists valid during the making were used as basis.

· 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· *General protective and hygienic measures:*

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

· *Respiratory protection:* Not required

· *Hand protection* necessary

· *Material of gloves*

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· *Penetration time of glove material*

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· *Eye/face protection* Goggles recommended during refilling

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· **General Information**

· <i>Physical state</i>	Liquid
· <i>Colour:</i>	Yellow
· <i>Odour:</i>	Characteristic
· <i>Odour threshold:</i>	Not determined
· <i>Melting point/freezing point:</i>	Undetermined
· <i>Boiling point or initial boiling point and boiling range</i>	Undetermined
· <i>Flammability</i>	Not applicable
· <i>Lower and upper explosion limit</i>	
· <i>Lower:</i>	Not determined
· <i>Upper:</i>	Not determined
· <i>Flash point:</i>	>79 °C
· <i>Auto-ignition temperature:</i>	>600 °C
· <i>Decomposition temperature:</i>	Not determined
· <i>pH at 20 °C</i>	6.7-7.7
· <i>Viscosity:</i>	
· <i>Kinematic viscosity</i>	Not determined
· Viscosity at 100°C:	
· <i>Dynamic:</i>	Not determined
· <i>Solubility</i>	
· <i>water:</i>	Fully miscible.
· <i>Partition coefficient n-octanol/water (log value)</i>	Not determined
· <i>Vapour pressure:</i>	Not determined
· <i>Density and/or relative density</i>	
· <i>Density at 20 °C:</i>	1.28 g/cm ³
· <i>Relative density</i>	Not determined
· Density (@15°C)	Not determined
· <i>Vapour density</i>	Not determined

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9.2 Other information

Appearance:

Form: Fluid

Important information on protection of health and environment, and on safety.

Ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Solvent content:

VOC (EC) 0.0 g/l

Change in condition

Evaporation rate Not determined

Information with regard to physical hazard classes

Explosives Void

Flammable gases Void

Aerosols Void

Oxidising gases Void

Gases under pressure Void

Flammable liquids Void

Flammable solids Void

Self-reactive substances and mixtures Void

Pyrophoric liquids Void

Pyrophoric solids Void

Self-heating substances and mixtures Void

Substances and mixtures, which emit flammable gases in contact with water Void

Oxidising liquids Void

Oxidising solids Void

Organic peroxides Void

Corrosive to metals Void

Desensitised explosives Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

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

Acute toxicity

Based on available data, the classification criteria are not met.

2634-33-5 1,2-benzisothiazol-3(2H)-one

Oral	Acute Toxicity Estimate of ingredient (ATE) oral	490 mg/kg
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· <i>LD/LC50 values relevant for classification:</i>		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LD50	>4.42 mg/kg (rat)

79622-59-6 Fluazinam

Oral	LD50	1,782 mg/kg (Colinus Virginianus)
		>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LD50	>4.82 mg/kg (rat)
	EC50 (72h)	>0.07 mg/l (algae)

2634-33-5 1,2-benzisothiazol-3(2H)-one

Oral	LD50	450 mg/kg (ATE)
		532 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50 (4h)	0.21 mg/l (ATE)

· **Reproductive toxicity** Suspected of damaging the unborn child.· **11.2 Information on other hazards**

· Endocrine disrupting properties	
None of the ingredients is listed.	

· **Other information** No further relevant information available.**SECTION 12: Ecological information**· **12.1 Toxicity**

· Aquatic toxicity:	
LC50 (96h) mg/ltr.	0.236 mg/ltr (Fish)
EC50 (48h)	0.36 mg/l (daphnia)
EC50 (72h)	0.052 mg/l (algae)

79622-59-6 Fluazinam

LC50 (96h)	0.056 mg/l (Oncorhynchus mykiss)
EC50 (48h)	0.2 mg/l (daphnia)

2634-33-5 1,2-benzisothiazol-3(2H)-one

LC50 (96h) mg/ltr.	1.6-2.18 mg/ltr (rainbow trout) (OECD 203)
EC50 (48h)	2.94-3.27 mg/l (Daphnia magna) (OECD 202)
EC50 (72h)	0.11 mg/l (Scenedesmus quadricauda) (OECD 201)
	0.11 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EC10 (72h)	0.04 mg/ltr. (Scenedesmus quadricauda) (OECD 201)
NOEC	0.21 mg/l (rainbow trout) (OECD 215)

· **12.2 Persistence and degradability** No further relevant information available.· **12.3 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** No further relevant information available.· **12.5 Results of PBT and vPvB assessment**· **PBT:** Not applicable

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- **vPvB:** Not applicable
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects** No further relevant information available.
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3082
· 14.2 UN proper shipping name · ADR · IMDG, IATA	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam)
· 14.3 Transport hazard class(es) · ADR, IMDG, IATA   · Class · Label	9 Miscellaneous dangerous substances and articles. 9
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR): · Special marking (IATA):	Product contains environmentally hazardous substances: Fluazinam Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.

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· <i>Hazard identification number (Kemler code):</i>	90
· <i>EMS Number:</i>	F-A,S-F
· <i>Stowage Category</i>	A
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable
· Transport/Additional information:	
· <i>ADR</i>	
· <i>Limited quantities (LQ)</i>	5L
· <i>Excepted quantities (EQ)</i>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <i>Transport category</i>	3
· <i>Tunnel restriction code</i>	(-)
· <i>IMDG</i>	
· <i>Limited quantities (LQ)</i>	5L
· <i>Excepted quantities (EQ)</i>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUAZINAM), 9, III

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: (Substances not listed)
None of the ingredients is listed.
· Poisons Act
· <i>Regulated explosives precursors</i>
None of the ingredients is listed.
· <i>Regulated poisons</i>
None of the ingredients is listed.
· <i>Reportable explosives precursors</i>
None of the ingredients is listed.
· <i>Reportable poisons</i>
None of the ingredients is listed.

· **Directive 2012/18/EU**

- *Named dangerous substances - ANNEX I* None of the ingredients is listed.
- *Seveso category E1* Hazardous to the Aquatic Environment
- *Qualifying quantity (tonnes) for the application of lower-tier requirements* 100 t
- *Qualifying quantity (tonnes) for the application of upper-tier requirements* 200 t

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· **Disclaimer**

This safety data sheet contains only safety relevant information. The information is based on the state of our knowledge at the time of revision, however, it does not constitute a guarantee of product properties, product information or product specifications and does not establish a contractual legal relationship. This document is

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only valid in its unchanged form. In the event of changes by third parties, the exhibitor accepts no responsibility for form and content or for any damages or claims arising from such changes. The information is not transferable to other products. If the product named in this safety data sheet is mixed, blended or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise. The data sheet does not release the user from the obligation to ensure that he acts in accordance with all regulations in connection with his activity.

· **Relevant phrases**

H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H330 Fatal if inhaled.
 H332 Harmful if inhaled.
 H361d Suspected of damaging the unborn child.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H413 May cause long lasting harmful effects to aquatic life.

· **Contact:** MSDS authorized Person

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 VOC: Volatile Organic Compounds (USA, EU)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 ATE: Acute toxicity estimate values
 Acute Tox. 4: Acute toxicity – Category 4
 Acute Tox. 2: Acute toxicity – Category 2
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Skin Sens. 1: Skin sensitisation – Category 1
 Skin Sens. 1A: Skin sensitisation – Category 1A
 Repr. 2: Reproductive toxicity – Category 2
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

· *** Data compared to the previous version altered.**

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