



Material Safety Data Sheet

According to Regulation (EC) No. 1907/2006

Issued on Jan 26, 2026

Version: 1.0

Printed on Jan 26, 2026

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name: Phitrite (Prothioconazole 200 g/L)

UFI: K88Y-WC28-P082-NQPT

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

Plant protection product for professional use. Agriculture.

Fungicide

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

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

Serious eye irritation - Category 2 - H319

Specific target organ toxicity (single exposure) - Category 3 - H335

Hazardous to the aquatic environment – Acute 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)

H319	Causes serious eye irritation
H335	May cause respiratory irritation
H410	Very toxic to aquatic life with long lasting effects
EUH401	To avoid risks to human health and the environment, comply with the instructions for use
EUH208	Contains 2-[2-(1-chlorocyclopropyl)-2-hydroxy-3-phenylpropyl]-2,4-dihydro-3H-1,2,4 triazole-3-thione. May produce an allergic reaction

Precautionary statement(s)

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311	IF exposed or concerned: Call a POISON CENTER/ doctor/ physician.
P410	Protect from sunlight.
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.

3. COMPOSITION INFORMATION

3.1 Substances

Not applicable.

3.2 Mixtures

Chemical nature

Emulsifiable concentrate (EC)

Prothioconazole 250 g/l

Hazardous components

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

No	Substance name	CAS/EC/Index/REACH no	Classification (EC)1272/2008 (CLP)	Concentration (%)
1	Prothioconazole	178928-70-6	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	25.00
2	N,N-Dimethyl decanamide	14433-76-2 238-405-1 01-2119485027-36-XXXX	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412	>20.00

Further information

Prothioconazole	178928-70-6	M-Factor: 10 (acute), 1 (chronic)
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For the full text of the H-Statements mentioned in this Section, see Section 16.

Particle characteristics

This substance/ mixture does not contain nanoforms

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.

If inhaled

Remove person to fresh air and keep comfortable for breathing. Call a physician or poison control center immediately. Keep patient warm and at rest.

In case of skin contact

Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. Get medical attention if irritation develops and persists.

In case of eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

If swallowed

Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available.



5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

High volume water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following may be released: Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Sulphur oxides, Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment for firefighters:

In the event of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus and protective suit. Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8.

For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

6.2 Environmental precautions

Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.

Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections

For disposal see section 13. Information regarding personal protective measures, see Section 8. Information regarding safe handling, see Section 7.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Avoid breathing dust/fume/gas/mist/vapours/spray. Ensure adequate ventilation.

General hygiene considerations

Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and

immediately after handling the product. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).

Advice on protection against fire and explosion

No special precautions required.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from frost and direct sunlight.

Requirements for storage areas and containers

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Protect from frost. Keep away from direct sunlight.

Incompatible products

Strong bases. Strong acids.

Do not store together with foodstuffs.

7.3 Specific end use(s)

Always read the label and product information before use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	CAS No.	Control parameters
Prothioconazole	178928-70-6	1.4 mg/m ³ (SK-ABS)

8.2 Exposure controls

Engineering measures

No data available.

Personal protective equipment

Respiratory protection

Wear respirator with an organic vapours and gas filter mask (protection factor 10) conforming to EN140 type A or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

Hand protection

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.



Material	Nitrile rubber
Rate of permeability	> 480 min
Glove thickness	> 0.4 mm
Protective index	Class 6
Directive	Protective gloves complying with EN 374.

Eye protection

Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

Skin and body protection

Wear standard coveralls and Category 3 Type 6 suit.

If there is a risk of significant exposure, consider a higher protective type suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to slightly turbid Liquid
Odour	Aromatic
Odour threshold	No data available
pH	5.0 - 6.0 (1 %) (23 °C) (deionized water)
Melting point	No data available
Freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	152 °C
Evaporation rate	No data available
Flammability (solid,gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Density	ca. 1.00 g/cm³ (20 °C)
Solubility (ies)	No data available.
Partition coefficient: n-octanol/water	Prothioconazole: log Pow: 3.82 (20 °C) (pH 7) N,N-Dimethyldecanamide: log Pow: 2.46
Auto-ignition temperature	340 °C
Decomposition temperature	No data available
Viscosity	No data available
Viscosity, dynamic	
Viscosity, kinematic	35.1 mm²/s (40 °C)



10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions when stored and handled according to prescribed instructions.

10.4 Conditions to avoid

Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Store only in the original container.

10.6 Hazardous decomposition products

No decomposition products expected under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

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

Acute oral toxicity

LD50 (Rat) > 2,500 mg/kg

Acute inhalation toxicity

LC50 (Rat) > 5 mg/l

Exposure time: 4 h

Highest attainable concentration.

Determined in the form of a respirable aerosol.

Irritating to respiratory system.

The value mentioned relates to N,N-dimethylacetamide.

Acute dermal toxicity

LD50 (Rat) > 4,000 mg/kg

Skin corrosion/irritation

No skin irritation (Rabbit)

Test conducted with a similar formulation.

Serious eye damage/eye irritation

Irritating to eyes. (Rabbit)

Test conducted with a similar formulation.

Respiratory or skin sensitisation

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Non-sensitizing. (Guinea pig)
OECD Test Guideline 406, Buehler test
Test conducted with a similar formulation.

Assessment STOT Specific target organ toxicity – single exposure

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

N,N-Dimethyldecan-1-amide: May cause respiratory irritation.

Assessment STOT Specific target organ toxicity – repeated exposure

Prothioconazole did not cause specific target organ toxicity in experimental animal studies.

N,N-Dimethyldecanamide did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity

Prothioconazole was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

N,N-Dimethyldecanamide was not genotoxic in a battery of in vitro tests.

Assessment carcinogenicity

Prothioconazole was not carcinogenic in lifetime feeding studies in rats and mice.

N,N-Dimethyldecanamide is not considered carcinogenic.

Assessment toxicity to reproduction

Prothioconazole caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Prothioconazole is related to parental toxicity.

N,N-Dimethyldecanamide is not considered a reproductive toxicant at non-maternally toxic dose levels.

Assessment developmental toxicity

Prothioconazole caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Prothioconazole are related to maternal toxicity.

N,N-Dimethyldecanamide did not cause developmental toxicity in rats and rabbits.

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)) 4.02 mg/l

Exposure time: 96 h

Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) 2.9 mg/l

Exposure time: 48 h

Toxicity to aquatic plants

EC50 (Raphidocelis subcapitata (freshwater green alga)) 12.7 mg/l

Growth rate; Exposure time: 72 h

ErC50 (Skeletonema costatum) 0.03278 mg/l

Exposure time: 72 h

The value mentioned relates to the active ingredient prothioconazole.

EC10 (Skeletonema costatum) 0.01427 mg/l

Growth rate; Exposure time: 72 h

The value mentioned relates to the active ingredient prothioconazole.

12.2 Persistence and degradability

Biodegradability

Prothioconazole: Not rapidly biodegradable

N,N-Dimethyldecanamide: rapidly biodegradable

Koc

Prothioconazole: Koc: 1765

12.3 Bioaccumulative potential

Bioaccumulation

Prothioconazole: Bioconcentration factor (BCF) 19

Does not bioaccumulate.

N,N-Dimethyldecanamide: Does not bioaccumulate.

12.4 Mobility in soil

Prothioconazole: Slightly mobile in soils

N,N-Dimethyldecanamide: Slightly mobile in soils



12.5 Results of PBT and vPvB assessment

Prothioconazole: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

N,N-Dimethyldecanamide: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No additional information available.

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Product:

It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines.

Contaminated packaging:

Small containers (< 10 l or < 10 kg) should be rinsed thoroughly using an integrated pressure rinsing device, or, by manually rinsing three times.

Add washings to sprayer at time of filling.

Dispose of empty and cleaned packaging safely.

Follow advice on product label and/or leaflet.

Waste key for the unused product:

02 01 08* - agrochemical waste containing dangerous substances

14. TRANSPORT INFORMATION

ADR/RID/ADN

14.1 UN number	3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROTHIOCONAZOLE SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packaging Group	III
14.5 Environm. Hazardous Mark	YES
Hazard no.	90
Tunnel Code	-

**IMDG**

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

IATA

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

14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7 Transport in bulk according to IMO instruments

No transport in bulk according to the IBC Code.

15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU-Regulations****Supply and Use**

European Communities (Prohibition of Certain Active Substances in Plant Protection Products) Regulations 1981 (SI No 320/1981)

European Communities (Authorization, Placing on the Market, Use and Control of Plant Protection Products) Regulations 2003 (SI No 83/2003)

European Communities (Classification, Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations 2001 (SI No 624/2001)

2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations, 2001 (SI No 619/2001)

Waste Treatment

Landfill Directive



Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94)

Further information

WHO-classification: III (Slightly hazardous)

15.2 Chemical safety assessment

A chemical safety assessment is not required.

16. OTHER INFORMATION

Text of the hazard statements mentioned in Section 3

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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.

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.
