



## SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006

### ULTRALEGEND 250 EC

Revision Date 27-January-2022

Version 1

Product No JTA/UK/100

Publish Date 22-October-2019

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

### 1.1. Product identifier

ULTRALEGEND 250 EC

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

Recommended Use	Fungicide
Uses advised against	No information available

### 1.3. Details of the supplier of the safety data sheet

Supplier Address	JT Agro Ltd 1 Bell Street, Maidenhead, Berkshire, SL6 1BU, U.K. Tel: +44 1628 421599 Fax: +44 1628 421623
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For further information, please contact

Email address	info@jtagro-cropthetics.com
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### 1.4. Emergency telephone number

Emergency Telephone	National Chemical Emergency Centre (UK): Tel: 01865 407333 (24 hours)
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## Section 2: HAZARD IDENTIFICATION

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Skin Irritation: Category 2  
H315 Causes skin irritation

Eye Irritation: Category 2  
H319 Causes serious eye irritation

Specific target organ toxicity – single exposure: Category 3  
H335 May cause respiratory irritation

Reproductive toxicity: Category 2  
H361d Suspected of damaging the unborn child

Acute aquatic toxicity: Category 1  
H400 Very toxic to aquatic life

Chronic aquatic toxicity: Category 1  
H410 Very toxic to aquatic life with long lasting effects

## **2.2. Label Elements**

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.

Hazardous components which must be listed on the label:

- Tebuconazole
- Prothioconazole
- N, N-Dimethyl decanamide



Signal word: Warning

### **Hazard statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H410 Very toxic to aquatic life with long lasting effects.  
H361d Suspected of damaging the unborn child.  
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

### **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor/ physician.  
P391 Collect spillage.  
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.

### 2.3. Other hazards

No information available

## Section 3: COMPOSITION/ INFORMATION ON INGREDIENTS

### 3.1. Mixtures

#### Chemical nature

Emulsifiable concentrate (EC)  
Prothioconazole/Tebuconazole 125:125 /g/l

#### Hazardous components

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

Chemical Name	CAS No EC-No./ REACH REG. No.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Conc. [%]
Prothioconazole	178928-70-6	Aquatic Acute 1 H400 Aquatic Chronic 1 H410	12.76
Tebuconazole	107534-96-3 403-640-2	Acute tox. 4, H302 Repr. 2, H361d Aquatic Acute 1, H400 Aquatic Chronic 1, H410	12.76
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

Prothioconazole	178928-70-6	M-Factor: 10 (acute), 1 (chronic)
Tebuconazole	107534-96-3	M-Factor: 1 (acute), 10 (chronic)

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

## Section 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.

**Inhalation** Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.

**Skin Contact** Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.

**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.

**Ingestion** 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**

**Symptoms** No symptoms known or expected.

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

**Treatment** Treat symptomatically. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. There is no specific antidote.

**Section 5: FIRE-FIGHTING MEASURES**

**5.1. Extinguishing media**

**Suitable** Use water spray, alcohol resistant foam, dry chemical or carbon dioxide

**Unsuitable** 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 fire-fighters** In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus and protective suit.

**Further information** Contain the spread of the fire-fighting media. Do not allow run-off from fire-fighting to enter drains or water courses.

**Section 6: ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Precautions** Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

**6.2. Environmental precautions**

Do not allow to get into surface water, drains and ground water. If spillage enters drains leading to sewage works inform local water company immediately. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

### 6.3. Methods and material for containment and cleaning up

**Methods for 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. Collect and transfer the product into a properly labelled and tightly closed container.

**Additional advice** Check also for any local site procedures.

### 6.4. Reference to other Sections

Information regarding safe handling, see section 7.  
 Information regarding personal protective equipment, see section 8.  
 Information regarding waste disposal, see section 13.

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation. No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.

**Hygiene measures** 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).

### 7.2. Conditions for safe storage, including any incompatibilities

**Requirements for storage** 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.

**Advice on common storage** Keep away from food, drink and animal feeding-stuffs.

**Suitable materials** HDPE (high density polyethylene).

### 7.3. Specific end use(s)

Refer to the label and/or leaflet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Prothioconazole	178928-70-6	1.4 mg/m <sup>3</sup> (SK-ABS)		OES BCS*
Tebuconazole	107534-96-3	0.2 mg/m <sup>3</sup> (SK-ABS)		OES BCS*

\*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

## **8.2. Exposure controls**

Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.

### **Personal protective equipment**

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases following recommendations would apply.

#### **Respiratory protection**

Wear respirator with a particle filter mask (protection factor 4) conforming to European norm EN149FFP1 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.

If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Form</b>	Liquid, clear to slightly turbid
<b>Colour</b>	Tan
<b>Odour</b>	Aromatic
<b>pH</b>	5.0 – 7.0 at 1% (23 °C) (deionized water)
<b>Flash point</b>	> 148 °C
<b>Vapour pressure</b>	No data available
<b>Density</b>	ca. 0.98 g/cm <sup>3</sup> (20 °C)
<b>Water solubility</b>	Emulsifiable
<b>Partition Coefficient n-octanol /water</b>	Prothioconazole: log Pow: 3.82 at 20 °C at pH 7  Tebuconazole: log pow: 3.7 N,N-Dimethyldecanamide: log pow: 2.46
<b>Viscosity, dynamic</b>	49.9 mPa.s (20 °C)
<b>Surface tension</b>	ca. 29.1 mN/m (20 °C)
<b>Oxidizing properties</b>	No oxidizing properties
<b>Explosivity</b>	Not explosive

### 9.2. Other information

Further safety related physical-chemical data are not known.

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

**Thermal decomposition** 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**

No decomposition products expected under normal conditions of use.

**Section 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

<b>Acute oral toxicity</b>	LD50 Rat, 500 - 2500 mg/kg
<b>Acute inhalational toxicity</b>	LC50 (Rat)> 5.153 mg/l Exposure time: 4h Irritating to respiratory system
<b>Acute dermal toxicity</b>	LD50 Rat >4000 mg/kg
<b>Skin corrosion/irritation</b>	Irritating to skin (rabbit)
<b>Eye irritation</b>	Irritating to eyes. (Rabbit)
<b>Sensitisation</b>	Non-sensitizing. (Guinea pig) OECD Test Guideline 406

**Assessment STOT Specific target organ toxicity – single exposure**

Prothioconazole: Based on available data, the classification criteria are not met.  
 Tebuconazole: 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.  
 Tebuconazole 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.  
 Tebuconazole was not mutagenic or genotoxic 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.  
 Tebuconazole caused at high dose levels an increased incidence of tumours in mice in the following organ(s): Liver.  
 The mechanism of tumour formation is not considered to be relevant to man.  
 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.  
 Tebuconazole 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 Tebuconazole 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.  
 Tebuconazole caused developmental toxicity only at dose levels toxic to the dams. Tebuconazole caused an increased incidence of post implantation losses, an increased incidence of non-specific malformations.  
 N,N-Dimethyldecanamide did not cause developmental toxicity in rats and rabbits.

**Aspiration Hazard**

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

**Further information**

No further toxicological information is available.

**Section 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

<b>Toxicity to fish</b>	LC50 (Oncorhynchus mykiss (rainbow trout)) 3.94 mg/l Exposure time: 96 h
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (Water flea)) 8.8 mg/l Exposure time: 48 h
<b>Chronic toxicity to aquatic invertebrates</b>	NOEC (Daphnia (water flea)): 0.010 mg/l Exposure time: 21d The value mentioned relates to the active ingredient tebuconazole.
<b>Toxicity to aquatic plants</b>	<b>IC50 (Raphidocelis subcapitata (freshwater green alga)) 9.5 mg/l</b> <b>Growth rate; Exposure time: 72 h</b>  ErC50 (Skeletonema costatum) 0.03278 mg/l <b>Exposure time: 72 h</b> The value mentioned relates to the active ingredient prothioconazole.  EC10 (Skeletonema costatum) 0.01427 mg/l <b>Growth rate; Exposure time: 72 h</b> The value mentioned relates to the active ingredient prothioconazole

### 12.2. Persistence and degradability

**Biodegradability** Prothioconazole: Not rapidly biodegradable  
Tebuconazole: Not rapidly biodegradable  
N,N-Dimethyldecanamide: rapidly biodegradable

**Koc** Prothioconazole: Koc: 1765  
Tebuconazole: Koc: 769

### 12.3. Bioaccumulative potential

**Bioaccumulation** Prothioconazole: Bioconcentration factor (BCF) 19  
Does not bioaccumulate.  
Tebuconazole: Bioconcentration factor (BCF) 35 - 59  
Does not bioaccumulate.  
N,N-Dimethyldecanamide:  
Does not bioaccumulate

### 12.4. Mobility in soil

**Mobility in soil** Prothioconazole: Slightly mobile in soils  
Tebuconazole: Slightly mobile in soils  
N,N-Dimethyldecanamide: Slightly mobile in soils

### 12.5. Results of PBT and vPvB assessment

**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).  
Tebuconazole: 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. Other adverse effects

**Additional ecological information** No other effects to be mentioned.

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Product** In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant. Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

**Waste key for the unused product**

**02 01 08\*** agrochemical waste containing hazardous substances

### Section 14: TRANSPORT CONSIDERATIONS

**ADR/RID/ADN**

14.1	UN number	3082
14.2	Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOLE, PROTHIOCONAZOLE SOLUTION)
14.3	Transport hazard class(es)	9
14.4	Packing group	III
14.5	Environmental Hazards Mark	Yes
	Hazard no.	90

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

**IMDG**

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

**IATA**

14.1	UN number	3082
14.2	Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOLE, PROTHIOCONAZOLE SOLUTION)
14.3	Transport hazard class(es)	9
14.4	Packing group	III
14.5	Environmental Hazards	Environmentally hazardous

**UK 'Carriage' Regulations**

14.1	UN number	3082
14.2	Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOLE, PROTHIOCONAZOLE SOLUTION)
14.3	Transport hazard class(es)	9
14.4	Packing group	III
14.5	Environmental Hazards	YES
	Emergency action code	3Z

**14.6 Special precautions for user**

See sections 6 to 8 of this Safety Data Sheet.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**

No transport in bulk according to the IBC Code.

### Section 15: REGULATORY INFORMATION

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

#### **UK and Northern Ireland Regulatory References**

This material may be subject to some or all of the following regulations (and any subsequent amendments). Users must ensure that any uses and restrictions as indicated on the label and/or leaflet are followed.

#### **Transport**

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348)

Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997 (SI 1997 No 2367) Air Navigation Dangerous Goods Regulations 2002 (SI 2002 No 2786)

#### **Supply and Use**

Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716) Chemical (Hazard Information and Packaging for Supply) (Northern Ireland) Regulations 2009

Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No 2677)

EH40 Occupational Exposure Limits - Table 1 List of approved workplace exposure limits

Control of Pesticide Regulations 1986

Dangerous Substances and Explosive Atmospheres Regulations 2002

#### **Waste Treatment**

Environmental Protection Act 1990, Part II

Environmental Protection (Duty of Care) Regulations 1991

The Waste Management Licensing Regulations 1994 (as amended)

Hazardous Waste Regulations 2005 (Replacing Special Waste Regulations 1996 as amended) Landfill Directive

Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94) Water Resources Act 1991

Anti-Pollution Works Regulations 1999

#### **Further information**

WHO-classification: III (Slightly hazardous)

### **15.2. Chemical Safety Assessment**

A chemical safety assessment is not required.

## **Section 16: OTHER INFORMATION**

### **Text of the hazard statements mentioned in Section 3.**

H302	Harmful if swallowed
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child
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.

### Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
Conc.	Concentration
ECx	Effective concentration to x %
EH40 WEL	Worker Exposure Limit
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
EN	European Standard
EU	European Union
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
ICx	Inhibition concentration to x %
IMDG	International Maritime Dangerous Goods
LCx	Lethal concentration to x %
LDx	Lethal dose to x %
LOEC/LOEL	Lowest observed effect concentration/level
MARPOL	MARPOL: International Convention for the prevention of marine pollution from ships
N.O.S.	Not otherwise specified
NOEC/NOEL	No observed effect concentration/level
OECD	Organization for Economic Co-operation and Development
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SI	Statutory Instrument
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008**

#### Disclaimer

**The information provided in this Material 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**

