

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

1.1. Product identifier

Product name : TOLEDO
Product code : FF-020 - Tebuconazole 430g/l SC -

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

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/preparation : Agriculture Fungicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Rotam Europe Ltd
Hamilton House, Mabledon Place
London WC1H 9BB
United Kingdom
Tel : +44 020 7953 0447
msds@rotam.com

1.4. Emergency telephone number

Emergency numbers : NHS Direct : 08 45 46 47 (England and Wales)
NHS 24 : 08 454 24 24 24 (Scotland)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Classification according to registration certificate n°14036 of 09/06/2008

Xi ; R43

Repr.Cat.3; R63

N; R51/53

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Directive 67/548/EEC or 1999/45/EC

Labelling according to registration certificate n°14036 of 09/06/2008

Hazard symbols :



Xn - Harmful



N - Dangerous for the environment

R-phrases : R43 - May cause sensitisation by skin contact
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63 - Possible risk of harm to the unborn child.

S-phrases : S2 - Keep out of the reach of children
S13 - Keep away from food, drink and animal foodstuffs
S20/21 - When using do not eat, drink or smoke
S24/25 - Avoid contact with skin and eyes
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S35 - This material and its container must be disposed of in a safe way
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection
S49 - Keep only in the original container
S57- Use appropriate container to avoid environmental contamination

SP1 - Do not contaminate surface water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Tebuconazole	(CAS No.) 107534-96-3 (EC no) 403-640-2 (EC index no) 603-197-00-7	39.81	Repr.Cat.3; R63 Xn; R22 N; R51/53
Aqueous preparation of isothiazolinones		0 - 1	C; R34 Xi; R43 R52/53

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Tebuconazole	(CAS No.) 107534-96-3 (EC no) 403-640-2 (EC index no) 603-197-00-7	39.81	Acute Tox. 4 (Oral), H302 Repr. 2, H361d Aquatic Chronic 2, H411
Aqueous preparation of isothiazolinones		0 - 1	Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a physician or poison control center immediately.
First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area.
First-aid measures after skin contact	: When symptoms occur: rinse immediately with plenty of water.
First-aid measures after eye contact	: Rinse eyes with plenty of water.
First-aid measures after ingestion	: Do not induce vomiting. Get medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO ₂).
Unsuitable extinguishing media	: high volume water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide, nitrogen oxides (NO _x).
Explosion hazard	: Product is not explosive.
Reactivity	: Not applicable.

5.3. Advice for firefighters

Precautionary measures fire	: Wear self-contained breathing apparatus and protective suit (see item 8).
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE).
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6.1.1. For non-emergency personnel

Protective equipment	: Wear personal protective equipment.
Emergency procedures	: Avoid inhalation of vapour and spray mist.

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6.1.2. For emergency responders

Protective equipment : Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE).

6.2. Environmental precautions

Do not allow material to contaminate ground water system.

6.3. Methods and material for containment and cleaning up

No additional information available

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do NOT get in eyes, on skin or on clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : Protective gloves.
Eye protection : Safety glasses.
Skin and body protection : Protective clothing.
Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Suspension concentration
Appearance : Off-white liquid
Colour : Off-white
Odour : Odourless.
Odour threshold : No data available
pH : 7.7 (1% dilution)
Melting point : No data available
Solidification point : No data available
Boiling point : No data available
Flash point : Not measurable
Relative evaporation rate (butylacetate=1) : No data available
Flammability (solid, gas) : Irrelevant, the mixture is a liquid
Explosive limits : Not explosive
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : 1.094
Solubility : No data available
Log Pow : Irrelevant, the product is a mixture
Log Kow : Irrelevant, the product is a mixture
Self ignition temperature : >500°C
Decomposition temperature : No data available
Viscosity, kinematic : Irrelevant
Viscosity, dynamic : 864 mPa.s @ 10 rpm - 193 mPa.s @ 100 rpm
Explosive properties : Not explosive
Oxidising properties : Not an oxidiser

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

Not applicable.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

TOLEDO	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5050 mg/kg
LC50 inhalation rat (mg/l)	> 5.13 mg/l

Irritation : Non irritating

Corrosivity : Not classified

Sensitisation : Not classified

Repeated dose toxicity : Not classified

Carcinogenicity : Not classified

Mutagenicity : Not classified

Reproductive toxicity : Possible risk of harm to the unborn child (due to classification of tebuconazole)

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

TOLEDO	
LC50(96h) fishes 1	10.6 mg/L (<i>Danio rerio</i>)
EC50(48h) Daphnia 1	11.6 mg/L (<i>Daphnia magna</i>)
EyC50(72h) algae	2.98 mg/L (<i>Pseudokirchnerella subcapita</i>)
	0.67 mg/L (<i>Lemna minor</i>)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

UN-No. : 3082

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14.2. UN proper shipping name

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Tebuconazole)
Transport document description : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Tebuconazole), 9, III, (E)

14.3. Transport hazard class(es)

Class (UN) : 9
Hazard labels (UN) : 9



14.4. Packing group

Packing group (UN) : III

14.5. Environmental hazards

Dangerous for the environment :

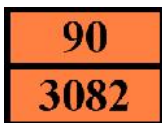


Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 90
Classification code : M6
Orange plates :



Tunnel restriction code : E
Limited quantities (ADR) : LQ07
Excepted quantities (ADR) : E1
EAC code : •3Z

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No Annex XVII restrictions
Contains no REACH candidate substance

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Repr. 2	Reproductive toxicity Category 2

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Skin Corr. 1B	skin corrosion/irritation Category 1B
Skin Sens. 1	Skin sensitisation Category 1
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
R22	Harmful if swallowed.
R34	Causes burns.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63	Possible risk of harm to the unborn child.
C	Corrosive
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

SDS EU (REACH Annex II)

Disclaimer: The information provided by Rotam Europe Ltd contained herein is given in good faith and correct to the best of our knowledge. However, the information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.