

TOLEDO® Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Revision date: 26-01-2018

Version: 3.2

1/8

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 : 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

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	NHS Direct (England and Wales)		111	
United Kingdom	NHS 24 (Scotland)		111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Repr. 2 H361d Aguatic Chronic 1 H410

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :





GHS08

GHS09

Signal word (CLP) : Warning

Hazard statements (CLP) : H361d - Suspected of damaging the unborn child.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P281 - Use personal protective equipment as required.

 $\label{eq:problem} \mbox{P308+P313 - IF exposed or concerned: Get medical advice/attention.}$

P391 - Collect spillage.

P405 - Obtain special instructions before use.

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.

EUH phrases : EUH401 - To avoid risks to human health and the environment, comply with the instructions for

use

PPP safety precautions : SP 1 - Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads)

SPe3 - To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

in line with LERAP requirements.

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 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 Acute 1, H400 Aquatic Chronic 1, H410
Aqueous preparation of isothiazolinones		0 - 1	Skin Corr. 1B, H314 Eye Dam.1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411 Aquatic Acute 1, H400

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

First-aid measures after inhalation

: Call a poison center or a doctor if you feel unwell.

: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact

Rinse immediately with plenty of water. In case of an skin reaction, consult a physician.

First-aid measures after eye contact

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion

: Do NOT induce vomiting. Obtain emergency medical attention.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

Unsuitable extinguishing media

: High volume water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of

fire

: Hazardous decomposition products may be released during prolonged heating like smokes,

carbon monoxide and dioxide, nitrogen oxides (NOx).

5.3. Advice for firefighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures

: Evacuate unnecessary personnel. Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

2/8

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material.

26-01-18 EN (English) MSDS ref: MSDS_GB_FF -020_TOLEDO_En_20180126

TOLEDO®

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not breathe spray, vapours. Use only outdoors or in a well-ventilated area. Avoid contact with

skin and eyes. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

7.3. Specific end use(s)

See the label.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Engineering control of operator exposure must be used where reasonably practicable.

Hand protection:

Protective gloves

Eye protection:

Face protection (faceshield)

Skin and body protection:

Wear suitable 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 : Liquid - SC (Suspention concentrate)

Appearance : White liquid Colour : White

Odour : No characteritic odour Odour threshold : No data available

pH : 7.7 (1% dilution) (CIPAC MT 75.2)

Melting point: No data availableSolidification point: No data availableBoiling point: No data available

Flash point : Not measurable (EEC A9)

Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : Irrelevant, the mixture is a liquid

Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : 1.094 (EEC A3)
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 (ASTM E 659/78)

Decomposition temperature : No data available Viscosity, kinematic : Irrelevant

Viscosity, dynamic : 864 mPa.s @ 10 rpm - 193 mPa.s @ 100 rpm (OECD 114)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Explosive properties : The test item is unlikely to produce any risk of explosion (EEC A14)

Oxidising properties : Not an oxidiser (EEC A21)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Not applicable.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

·
000 mg/kg (OECD Guidelines n°425)
050 mg/kg (OECD Guidelines n°402)
13 mg/l (4h) (OECD Guidelines n°403)
)

Skin corrosion/irritation : Non irritating for the skin (OECD Guidelines n°40, rabbit)

Serious eye damage/irritation : Non irritating for the eyes (OECD Guidelines n°405, rabbit

Respiratory or skin sensitisation : Non sensitising for the skin (OECD Guidelines n°406, guinea pig)

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Possible risk of harm to the unborn child (due to the classification of active subtance

tebuconazole)
: Not classified

Specific target organ toxicity (single exposure) :
Specific target organ toxicity (repeated :

exposure)

: Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

TOLEDO [®]	
LC50(96h) fishes	24.62 mg/l (Danio rerio) OECD Guidelines n°203 16.3 mg/l (Oncorhynchus mykiss) OECD Guidelines n°203
EC50(48h) Daphnia 1	> 3.7 mg/l (Daphnia magna) OECD Guidelines n°202 10.00 mg/l (Daphnia similis) OECD Guidelines n°202
EyC50(72h) algae	7.34 mg/l(Pseudokirchnierella subcapita) OECD Guidelines n°201
NOErC (72h) algae	6.87 mg/l Pseudokirchnierella subcapita) OECD Guidelines n°201
EyC50 (7 days) other aquatic plants	1.65 mg/l (Lemna minor L.) OECD Guidelines n°221
NOErC (7 days) other aquatic plants	0.05 mg/l (Lemna minor L.) OECD Guidelines n°221

12.2. Persistence and degradability

Tebuconazole (CAS No.) 107534-96-3	
Persistence and degradability	Not readily biodegradable

12.3. Bioaccumulative potential

Tebuconazole (CAS No.) 107534-96-3	
Log Pow	3.7 (EFSA Journal 2014; 12(1):3485)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

12.4. Mobility in soil

Components	
Tebuconazole (CAS No.) 107534-96-3	Koc= 769 L/kg (Arithmetic mean), (EFSA Journal 2014; 12(1):3485)

12.5. Results of PBT and vPvB assessment

Components	
Tebuconazole (CAS No.) 107534-96-3	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

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

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

14.1. UN number

 UN-No. (ADR)
 : 3082

 UN-No. (IMDG)
 : 3082

 UN-No. (IATA)
 : 3082

 UN-No. (ADN)
 : 3082

 UN-No. (RID)
 : 3082

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Proper Shipping Name (IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Proper Shipping Name (ADN) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Proper Shipping Name (RID) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole), Transport document description (ADR) 9, III, (E) Transport document description (IMDG) UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole), 9, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS Transport document description (IATA) : UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Tebuconazole), 9, III, **ENVIRONMENTALLY HAZARDOUS** : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole), Transport document description (ADN) 9, III, ENVIRONMENTALLY HAZARDOUS Transport document description (RID) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole),

9, III, ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 9
Danger labels (ADR) : 9



IMDG

Transport hazard class(es) (IMDG) : 9
Danger labels (IMDG) : 9



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

IATA

Transport hazard class(es) (IATA) : 9
Hazard labels (IATA) : 9



ADN

Transport hazard class(es) (ADN) : 9
Danger labels (ADN) : 9



RID

Transport hazard class(es) (RID) : 9
Danger labels (RID) : 9



14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : M6

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

Limited quantities (ADR) : 5l Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions : T4

(ADR)

Portable tank and bulk container special

provisions (ADR)

: TP1, TP29

EN (English)

Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages : V12

(ADR)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Special provisions for carriage - Loading,

unloading and handling (ADR)

Hazard identification number (Kemler No.) :

Orange plates

90 3082

: CV13

Tunnel restriction code (ADR) : E EAC code : •3Z

- Transport by sea

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, LP01

Special packing provisions (IMDG) : PP1

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T4

Tank special provisions (IMDG) : TP2, TP29

EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A

- Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197

ERG code (IATA) : 9L

- Inland waterway transport

Classification code (ADN) : M6

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

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP

Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : M6

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

Limited quantities (RID) : 5L Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions : T4

(RID)
Portable tank and bulk container special

provisions (RID)

: TP1, TP29

Tank codes for RID tanks (RID) : LGBV

Transport category (RID) : 3

Special provisions for carriage – Packages : W12

(RID)

: CW13, CW31

Special provisions for carriage - Loading, unloading and handling (RID)

EN (English)

MSDS ref: MSDS_GB_FF -020_TOLEDO_En_20180126

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

14.7. Transport in bulk according to Annex II of MARPOL 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

The mixture is registered as a plant protection product according to Regulation (EC) No.1107 / 2009.

SECTION 16: Other information

This MSDS supersedes all previous editions.

TOLEDO® is a registered trademark of ROTAM.

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixturejs, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006

Full text of 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 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Repr. 2	Reproductive toxicity Category 2
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
H318	Causes serious eye damage
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life
H410	Very Toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

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.