# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008



Revision date 25-Jul-2022 Revision Number 1

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

# 1.1. Product identifier

Product Name DISCOVERY

Product Code(s) TP.2006.F.1

Chemical name Boscalid 177 Trifloxystrobin 100 SC

Pure substance/mixture Mixture

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

**Recommended use** Fungicide; For professional users only

Uses advised against No information available

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

### Manufacturer

Tapazol Chemical Works Ltd. 1st HaSolela st. West. Ind. Zone Beit Shemesh, Israel 9905415

Tel:+972-2-992-6040 Fax: +972-2-9926050

For further information, please contact sds@tapazol.co.il

### 1.4. Emergency telephone number

Emergency Telephone +972 4 777 1900

National Institute for Information on Poisoning Rambam Health Care Campus, Haifa, Israel

# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

regulation (EC) No 1272/2000	
Effects on or via lactation	Yes - (H362)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

### 2.2. Label elements

Contains Trifloxystrobin (ISO)



Signal word Warning

#### **Hazard statements**

H362 - May cause harm to breast-fed children

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 (Trifloxystrobin). May produce an allergic reaction

# Precautionary Statements - EU (§28, 1272/2008)

P102 - Keep out of reach of children

P201 - Obtain special instructions before use

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P263 - Avoid contact during pregnancy and while nursing

P273 - Avoid release to the environment

P391 - Collect spillage

P501 - Dispose of contents/ container to an approved waste disposal plant

#### **Additional information**

SP1 - 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).

#### 2.3. Other hazards

# **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Not applicable

# 3.2 Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Boscalid	606-143-0	188425-85-6	14-19	Aquatic Chronic 2 (H411)
Trifloxystrobin (ISO)	604-237-6	141517-21-7	7-12	Lact. H362 Skin Sens. 1 (H317) Aquatic Acute 1 (H400) M=100 Aquatic Chronic 1 (H410) M=10

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

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation

or allergic reactions see a physician.

Ingestion Clean mouth with water and drink afterwards plenty of water.

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

**Symptoms** Itching. Rashes. Hives.

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

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

# SECTION 5: Firefighting measures

5.1. Extinguishing media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

**Small Fire** Dry chemical, CO2, water spray or regular foam.

Water spray, fog or regular foam Large Fire

Dike fire-control water for later disposal

Move containers from fire area if you can do it without risk

Do not scatter spilled material with high pressure water streams. Unsuitable extinguishing media

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

# SECTION 6: Accidental release measures

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

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal Personal precautions

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

See Section 12 for additional Ecological Information. **Environmental precautions** 

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

# SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and

shoes.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

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

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Exposure Limits** 

#### Biological occupational exposure limits

Chemical name	Latvia	Luxembourg	Romania	Slovakia
Trifloxystrobin (ISO)	-	-	5 mg/g Creatinine - urine	-
141517-21-7			(Fluorine) - end of shift	

#### 8.2. Exposure controls

Personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Physical state Liquid Color Off- white

Property Values Remarks • Method

**pH** 6 - 8

pH (as aqueous solution)
Melting point / freezing point
Boiling point / boiling range

Flash point >100 °C

Evaporation rate No data available. Flammability (solid, gas) No data available.

Flammability Limit in Air

**Upper flammability or explosive** No data available.

limits

Lower flammability or explosive No data available.

limits

Vapor pressureNo data available.Vapor densityNo data available.Relative density1.0 - 1.2

Water solubility
Solubility(ies)
Partition coefficient
Autoignition temperature

Forms a suspension
No data available.
No data available.
No data available.

**Decomposition temperature** 

Kinematic viscosity

No data available.

No data available.

No data available.

9.2. Other information

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

### 10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

# 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions 
None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

# SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Oral LD50>5000mg/kg. Based on available data, the classification criteria are not met.Dermal LD50> 2000mg/kg. Based on available data, the classification criteria are not met.Inhalation LC50mg/l air 4 h. Based on available data, the classification criteria are not met.

Skin corrosion/irritation Non-irritating to the skin. Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Non-irritating to the eyes. Based on available data, the classification criteria are not met.

Respiratory or skin sensitization Not a skin sensitizer. Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

Chemical name	European Union
Boscalid	Not classified
Trifloxystrobin (ISO)	Not classified

### Carcinogenicity

Chemical name	European Union
Boscalid	Not classified
Trifloxystrobin (ISO)	Not classified

Reproductive toxicity Classification based on data available for ingredients. May cause harm to breast-fed

children.

Chemical name	European Union
Boscalid	Not classified
Trifloxystrobin (ISO)	Lact. (H362)

**STOT - single exposure** Not classified. (Based on calculation method classification criteria are not met).

**STOT - repeated exposure**Not classified. (Based on calculation method classification criteria are not met).

Aspiration hazard Not classified. (Based on calculation method classification criteria are not met).

# **SECTION 12: Ecological information**

12.1. Toxicity

**Ecotoxicity** H400 - Very toxic to aquatic life.

Classification based on calculation method.

Revision date 25-Jul-2022

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

Classification based on calculation method.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Boscalid	Acute toxicity: EC50 =	Acute toxicity: LC50 = 2.7	-	Acute toxicity: EC50 =
	3.75 mg/l;	mg/l;		5.33 mg/l;
	Chronic toxicity: NOEC =	Chronic toxicity: NOEC =		Chronic toxicity: NOEC =
	NA	0.125 mg/l		1.3 mg/l
Trifloxystrobin (ISO)	Acute toxicity: ErC50 =	Acute toxicity: LC50 =	-	Acute toxicity: LC50 =
	0.0174 mg/l;	0.015 mg/l;		0/00862 mg/l; Chronic
	Chronic toxicity: NOEC =	Chronic toxicity: NOEC =		toxicity: NOEC = 0.00276
	0.0025 mg/l	0.0043 mg/l		mg/l

#### 12.2. Persistence and degradability

Trifloxystrobin is not rapidly degradable. Persistence and degradability

Boscalid is not readily biodegradable.

12.3. Bioaccumulative potential

**Bioaccumulation** Trifloxystrobin is not bioaccumulative.

Boscalid: moderate level of bioaccumulation.

**Bioconcentration factor (BCF)** Trifloxystrobin: BCF < 500 L/kg;

Boscalid: BCF = 107 L/Kg

Component Information

<u> </u>	
Chemical name	Partition coefficient
Boscalid	Log P = 2.96 (at pH 7, 20 °C)
Trifloxystrobin (ISO)	log Pow of 4.5 (Method OECD TG 107 at 25 °C)

# 12.4. Mobility in soil

Trifloxystrobin:  $DT50 = 2.1-6.1 \text{ days } (12^{\circ}C)$ . Mobility in soil

Boscalid: DT50 = 245 - 1000 (20°C).

### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The components in formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Do not reuse empty containers. Contaminated packaging

# **SECTION 14: Transport information**

**IMDG** 

14.1 UN number 3082

Environmentally hazardous substance, liquid, n.o.s. [Trifloxystrobin] 14.2 UN proper shipping name

14.3 Transport hazard class(es) 9 14.4 Packing group

Ш

Revision date 25-Jul-2022

**DISCOVERY** 

14.5 Marine pollutant Yes **Environmental hazards** Yes

14.6 Special precautions for user

**Special Provisions** None 14.7. Transport in bulk according to

Annex II of MARPOL and the IBC

Code

RID

14.1 UN number 3082

14.2 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. [Trifloxystrobin]

14.3 Transport hazard class(es) 14.4 Packing group Ш 14.5 Environmental hazards Yes 14.6 Special precautions for user

**Special Provisions** None

ADR

14.1 UN number 3082

14.2 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. [Trifloxystrobin]

14.3 Transport hazard class(es) 14.4 Packing group Ш 14.5 Environmental hazards Yes

14.6 Special precautions for user

**Special Provisions** None

IATA

14.1 UN number 3082

14.2 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. [Trifloxystrobin]

14.3 Transport hazard class(es) Ш 14.4 Packing group 14.5 Environmental hazards Yes 14.6 Special precautions for user

**Special Provisions** None

# **SECTION 15: Regulatory information**

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

### National regulations

France

Occupational Illnesses (R-463-3, France)

Germany

Obviously hazardous to water (WGK 2) Water hazard class (WGK)

### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

# Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### **Persistent Organic Pollutants**

Not applicable

# Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

**International Inventories** 

Contact supplier for inventory compliance status **TSCA DSL/NDSL** Contact supplier for inventory compliance status **EINECS/ELINCS** Contact supplier for inventory compliance status **ENCS** Contact supplier for inventory compliance status Contact supplier for inventory compliance status **IECSC** Contact supplier for inventory compliance status **KECL PICCS** Contact supplier for inventory compliance status **AICS** Contact supplier for inventory compliance status

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

# 15.2. Chemical safety assessment

# **SECTION 16: Other information**

#### Key or legend to abbreviations and acronyms used in the safety data sheet

### Full text of H-Statements referred to under section 3

H317 - May cause an allergic skin reaction

H362 - May cause harm to breast-fed children

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

#### Legend

SVHC: Substances of Very High Concern for Authorization:

#### Legend Section 8: Exposure controls/personal protection

TWA (time-weighted average) STEL (Short Term Exposure Limit) TWA STEL

Ceilina Maximum limit value Skin designation

# Classification procedure

H362 - Classification based on calculation method

H400 - Classification based on calculation method

H410 - Classification based on calculation method

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

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**End of Safety Data Sheet**