

# 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 23-Feb-2023

Revision Number 1

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

### 1.1. Product identifier

**Product Name** DUET  
**Product Code(s)** TP.2004.F.1\_\_\_ISR  
**Chemical name** Azoxystrobin 200 Tebuconazole 250 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

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](mailto: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

<b>Acute toxicity - Dermal</b>	Category 4 - (H312)
<b>Acute toxicity - Inhalation (Dusts/Mists)</b>	Category 4 - (H332)
<b>Reproductive toxicity</b>	Category 2 - (H361)
<b>Acute aquatic toxicity</b>	Category 1 - (H400)
<b>Chronic aquatic toxicity</b>	Category 1 - (H410)

### 2.2. Label elements

Contains Tebuconazole (ISO), Azoxystrobin (ISO)

**Signal word**

Warning

**Hazard statements**

H312 - Harmful in contact with skin

H332 - Harmful if inhaled

H361d - Suspected of damaging the unborn child

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',2''-(hexahydro-1,3,5-triazine -1,3,5-triyl)triethanol AND 2-methylisothiazol-3(2H)-one ). May produce an allergic reaction

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

P102 - Keep out of reach of children

P201 - Obtain special instructions before use

P264 - Wash face, hands and any exposed skin thoroughly after handling

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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****Endocrine Disruptor Information**

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances
Tebuconazole (ISO)	Group III Chemical	-
2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	Group III Chemical	-

**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]
Tebuconazole (ISO)	-	107534-96-3	21-26	Acute Tox.4 (H302) Repr. 2 (H361) Aquatic Acute 1 (H400)M=1 Aquatic Chronic 1(H410) M=10
Azoxystrobin (ISO)	603-524-3	131860-33-8	16-21	Acute Tox. 3 (H331) ATE=0.7 mg/L (dust or mist) Aquatic Acute 1 (H400)

				M=10 Aquatic Chronic 1 (H410) M=10
2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	225-208-0	4719-04-4	<1	Acute Tox. 4 (H302) Skin Sens. 1 (H317) SCL ≥ 0,1 %
2-methylisothiazol-3(2H)-one	220-239-6	2682-20-4	<0.01	Acute tox.3 (H301) Acute tox.3 (H311) Skin Corr. 1B (H314) Eye Dam.1 (H318) Skin Sens. 1A (H317) SCL ≥ 0,0015 % Acute Tox. 2 (H330) Aquatic Acute 1 (H400) M=10 Aquatic Chronic 1 (H410) M=1

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

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.
<b>Self-protection of the first aider</b>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.

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

**Symptoms** Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.

### 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

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Small Fire</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam.
<b>Large Fire</b>	Water spray, fog or regular foam

Dike fire-control water for later disposal  
Move containers from fire area if you can do it without risk

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

### **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**

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

### **6.2. Environmental precautions**

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

### **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. Avoid breathing vapors or mists.

**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. Store locked up.

**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**

Chemical name	European Union	Austria	Belgium	Netherlands	Bulgaria
2-methylisothiazol-3(2H)-one 2682-20-4	-	TWA: 0.05 mg/m <sup>3</sup> Skin sensitizer	-	-	-

**Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

**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

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	5.5 - 7.5	
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 limits	No data available.	

<b>Lower flammability or explosive limits</b>	No data available.
<b>Vapor pressure</b>	No data available.
<b>Vapor density</b>	No data available.
<b>Relative density</b>	1.020 - 1.120
<b>Water solubility</b>	Forms a suspension
<b>Solubility(ies)</b>	No data available.
<b>Partition coefficient</b>	No data available.
<b>Autoignition temperature</b>	No data available.
<b>Decomposition temperature</b>	
<b>Kinematic viscosity</b>	No data available.
<b>Dynamic viscosity</b>	800-900 mPa s

## 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** Excessive heat.

### 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

<b>Oral LD50</b>	>2000 mg/kg. Based on available data, the classification criteria are not met.
<b>Dermal LD50</b>	>2000 mg/kg. Based on available data, the classification criteria are not met.
<b>Inhalation LC50</b>	Acute Tox. 4 - H332 Classification based on calculation method
<b>Skin corrosion/irritation</b>	Non-irritating to the skin. Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	Non-irritating to the eyes. Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitization</b>	Not a skin sensitizer. Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Not classified. Based on calculation method classification criteria are not met.

Chemical name	European Union
Tebuconazole (ISO)	Not classified
Azoxystrobin (ISO)	Not classified

**Carcinogenicity** Not classified. Based on calculation method classification criteria are not met.

Chemical name	European Union
Tebuconazole (ISO)	Not classified
Azoxystrobin (ISO)	Not classified

**Reproductive toxicity** H361d - Suspected of damaging the unborn child. Classification based on calculation method. [Tebuconazole].

Chemical name	European Union
Tebuconazole (ISO)	Repr. 2 (H361)
Azoxystrobin (ISO)	Not classified

**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 available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity

H400 - Very toxic to aquatic life.  
Classification based on calculation method.  
H410 - Very toxic to aquatic life with long lasting effects.  
Classification based on calculation method.  
Low toxicity to honeybees.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Tebuconazole (ISO)	Acute toxicity: ErC50 = 0.237 mg/l	Chronic toxicity: NOEC = 0.012 mg/l	-	Acute toxicity: EC50 = 0.46 mg/l. Chronic toxicity: NOEC = 0.01 mg/l
Azoxystrobin (ISO)	Acute toxicity: ErC50 = 0.146 mg/l Chronic toxicity: NOErC = 0.02 mg/l	Acute toxicity: LC50 = 0.47 mg/l Chronic toxicity: NOEC = 0.147 mg/l	-	Acute toxicity: EC50 = 0.055 mg/l Chronic toxicity: NOEC: 0.00954 mg/l

### 12.2. Persistence and degradability

**Persistence and degradability** Tebuconazole appeared to be persistent in soil and considered to be not rapidly degradable. Not rapidly degradable. [Azoxystrobin].

### 12.3. Bioaccumulative potential

**Bioaccumulation** Tebuconazole is not potentially bioaccumulative. Low potential for bioaccumulation [Azoxystrobin].

**Bioconcentration factor (BCF)** 26.61 L/kg [Azoxystrobin]; Tebuconazole: BCF < 500 L/kg;

#### Component Information

Chemical name	Partition coefficient
Tebuconazole (ISO)	log Kow of 3.70 (Method OECD 107, 20 °C, purity 99.1%)

Azoxystrobin (ISO)	Log Kow = 2.5
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**12.4. Mobility in soil**

**Mobility in soil** Tebuconazole: DT50 = 29.4 days (20°C). KFoc 207-594 mL/g [Azoxystrobin].

**Mobility** Low to medium mobility [Azoxystrobin].

**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.

Chemical name	PBT and vPvB assessment
Tebuconazole (ISO)	The substance is not PBT / vPvB
Azoxystrobin (ISO)	The substance is not PBT / vPvB
2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	The substance is not PBT / vPvB
2-methylisothiazol-3(2H)-one	The substance is not PBT / vPvB

**12.6. Other adverse effects****Endocrine Disruptor Information**

Chemical name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances
Tebuconazole (ISO)	Group III Chemical	-
2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	Group III Chemical	-

**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.

**Contaminated packaging** Do not reuse empty containers.

**SECTION 14: Transport information****IMDG**

14.1 UN number 3082  
 14.2 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. [Tebuconazole]; [Azoxystrobin]  
 14.3 Transport hazard class(es) 9  
 14.4 Packing group III  
 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. [Tebuconazole]; [Azoxystrobin]  
 14.3 Transport hazard class(es) 9  
 14.4 Packing group III  
 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. [Tebuconazole]; [Azoxytrobilin]
14.3 Transport hazard class(es)	9
14.4 Packing group	III
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. [Tebuconazole]; [Azoxytrobilin]
14.3 Transport hazard class(es)	9
14.4 Packing group	III
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**

Water hazard class (WGK) strongly hazardous to water (WGK 3)

**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)**

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

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

**International Inventories**

TSCA	Contact supplier for inventory compliance status
DSL/NDL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
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/NDL - 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**

H301 - Toxic if swallowed

H302 - Harmful if swallowed

H311 - Toxic in contact with skin

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H330 - Fatal if inhaled

H331 - Toxic if inhaled

H361 - Suspected of damaging fertility or the unborn child

H400 - Very toxic to aquatic life

H410 - Very 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 TWA (time-weighted average)

Ceiling Maximum limit value

STEL

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STEL (Short Term Exposure Limit)

Skin designation

#### **Classification procedure**

H312 - Classification based on Plant Protection authority opinion in Israel

H332 - Classification based on calculation method

H361d - 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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**Revision date** 23-Feb-2023

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

**Disclaimer**

**The information provided in this 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**