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**Complying with 1907/2006/EEC Regulation of 18 December 2006 ("REACH Regulation")****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Product name: UNIK

Synonyms: Bale

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

Common uses: Plant growth regulator.

**1.3 Details of the supplier of the safety data sheet**

Gadot Agro Ltd.

Gadot Agro Site, Kidron, P.O.B 555, Kidron 7079500, Israel

Phone: +972-8-6308000

Fax: +972-8-6308001

E-mail address of person responsible for this SDS: [infoagro@gadotagro.com](mailto:infoagro@gadotagro.com)**1.4 Emergency telephone number**

Emergency telephone number (with hours of operation): N/A

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

Classification in accordance with Regulation (EC) No. 1272/2008 (CLP):

Skin Sens. 1 H317

Aquatic Chronic 3 H412

See section 16 for the full text of the H-statements declared above.

**2.2 Label elements**

Labelling in accordance with Regulation 1272/2008 (CLP)

Hazard pictogram(s):



Signal word: Warning

Hazard statement(s):

H317: May cause an allergic skin reaction.

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves.

P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.

P273: Avoid release to the environment.

**2.3 Other hazard**

Not available

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### SECTION 3: Composition/information on ingredients

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#### 3.2 Mixtures:

Substance name	Identifiers	%	CLP Classification
Uniconazole ((1E)-1-(4-Chlorophenyl)-4,4-dimethyl-2-(1H-1,2,4-triazol-1-yl)-1-penten-3-ol)	CAS number: 83657-22-1 EC number: 617-483-4	5.5	Acute Tox. 4 H302 Aquatic Chronic 2 H411
Alcohols, C9-11, ethoxylated	CAS number: 68439-46-3 EC number: 614-482-0	<2	Acute Tox. 4 H302 Eye Dam. 1 H318

See section 16 for the full text of the H-statements declared above.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in section 8.**

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### SECTION 4: First aid measures

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#### 4.1 Description of first aid measures

**Eyes contact:** In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Get medical attention.

**Skin contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Get medical attention.

**Inhalation:** Remove the victim from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

**Ingestion:** **Do not induce vomiting.** If victim is conscious, wash mouth thoroughly with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

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

See section 2.2 (Label elements) and/or section 11 (Toxicological information) for the most important known symptoms and effects.

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

Not available

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### SECTION 5: Fire-fighting measures

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#### 5.1 Extinguishing media

Suitable: Use an extinguishing agent suitable for surrounding fire.

Not suitable: Do not use water jet as an extinguisher, as this will spread the product to the environment.

#### 5.2 Special hazards arising from the substance or mixture

Under fire may emits irritating and toxic fumes.

#### 5.3 Advice for firefighters

**Special protective equipment for fire fighters:** Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

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## **SECTION 6: Accidental release measures**

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

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Ventilate area of spill.

### **6.2 Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas.

### **6.3 Methods and materials for containment and cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

### **6.4 Reference to other sections**

See Section 1 for emergency contact information.

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## **SECTION 7: Handling and storage**

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### **7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapors or mist. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures. Take precautionary measures against static discharges.

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

**Storage:** Keep container tightly closed. Keep away from oxidizing agents.

### **7.3 Specific end use(s):** N/A

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## **SECTION 8: Exposure control/personal protection**

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### **8.1 Control parameters**

Occupational exposure limit values: N/A

### **8.2 Exposure controls**

#### Engineering measures

Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

#### Personal protective measures

Respiratory protection: Suitable respirator. Be sure to use an approved/certified equipment or equivalent equipment. Wear appropriate respirator when ventilation is inadequate.

Hand protection: Wear protective gloves to prevent skin exposure.

Eye protection: Wear protective safety glasses.

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

Environmental exposure controls: Not available

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance: Off-white/buff/beige liquid

Odour: Solvent odor

Odour threshold: N/A

pH: 7.4 ± 0.6

Melting point/Freezing point: N/A

Initial boiling point/boiling range: 100°C ± 2.5°C

Flash point: N/A

Evaporation rate: N/A

Flammability: N/A

Upper/lower flammability or explosive limits: N/A

Vapor pressure: N/A

Vapor density: N/A

Relative density: 1.049 g/ml, 20°C

Solubility(ies): N/A

Partition coefficient Octanol/Water: N/A

Auto-ignition temperature: N/A

Decomposition temperature: N/A

Viscosity: N/A

Explosive properties: N/A

Oxidizing properties: N/A

**9.2 Other information**

N/A

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Not available

**10.2 Chemical stability**

The product is stable under normal handling and storage conditions described in Section 7.

**10.3 Possibility of hazardous reactions**

Hazardous reactions are not expected, under normal conditions of storage and use.

**10.4 Conditions to avoid**

Not available

**10.5 Incompatible materials**

Oxidizing agents.

**10.6 Hazardous decomposition products**

Other decomposition products: not available

In the event of fire: see section 5

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Acute toxicity:

Product/substance name	Test	Species	Dose
UNIK	LD50, Oral	Rat	>2000 mg/kg
	LD50, Dermal	Rat	>2000 mg/kg

Uniconazole ((1E)-1-(4-Chlorophenyl)-4,4-dimethyl-2-(1H-1,2,4-triazol-1-yl)-1-penten-3-ol)	LD50, Oral	Rat	430 mg/kg (females), 460 mg/kg (males)
	LD50, Dermal	Rat	>2000 mg/kg
	LC50, Inhalation	Rat	>2750 mg/m <sup>3</sup>

Skin corrosion/irritation: Non-irritant.

Serious eye damage/irritation: Non-irritant.

Respiratory or skin sensitization: Sensitizing to skin.

Germ cell mutagenicity: Uniconazole did not increase the incidence of gene mutation in *Salmonella typhimurium* (Ames test) or *Escherichia coli* WP2uvrA. It did not induce formation of micronuclei in mouse bone marrow cells, nor did it induce sister chromatid exchange in CHO-K1 cells.

Carcinogenicity: In an oncogenicity study mice were fed uniconazole at dietary concentrations of 0, 10, 40, 200 or 1500 ppm for 78 weeks. Survival in males in the control group was low compared with treated groups. Increased liver weights accompanied by histopathological changes in the liver were observed at 1500 ppm. A slight increase in the incidence of malignant neoplasms was observed in females at 1500 ppm and a slight increase in the incidence of benign neoplasms was observed in males at 1500 ppm. The incidence of hepatic adenomas and carcinomas was slightly increased in males at 1500 ppm but not females. Age related histopathological changes in a variety of tissues were also observed with increased incidence in males at 1500 ppm. The NOEL was 200 ppm, equal to 28.5 mg/kg bw/day in males and 37.5 mg/kg bw/day in females.

In a combined chronic/oncogenicity study, rats were fed uniconazole at dietary concentrations of 0, 10, 40, 200, or 1000 ppm for 106 weeks. Reduced body weights and increased liver weights were observed at 1000 ppm. Histopathological changes in livers were observed at 200 and 1000 ppm. No increase in the incidence of tumors was observed. The NOEL was 40 ppm equal to approximately 1.86 mg/kg bw/day in males and 2.36 mg/kg bw/day in females.

Reproductive toxicity: For Uniconazole: In a two-generation reproduction study in rats, there was no effect on reproductive behavior or performance. No effect on foetal development was observed in rabbits. Other than variations in bone development (supernumerary ribs) no effect was observed on foetal development in rats.

Specific target organ toxicity (single exposure): Not available

Specific target organ toxicity (repeated exposure): Not available

Aspiration hazard: Not available

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Toxicity to algae	Toxicity to fish	Toxicity to crustaceans
Uniconazole ((1E)-1-(4-Chlorophenyl)-4,4-dimethyl-2-(1H-1,2,4-triazol-1-yl)-1-penten-3-ol)	-	LC50/96h Rainbow trout 14.8 mg/l, Carp 7.64 mg/l	-

### 12.2 Persistence and Degradability

Not available

### 12.3 Bioaccumulative potential

Not available

**12.4 Mobility in soil**

Not available

**12.5 Results of PBT and vPvB assessment**

Not available

**12.6 Endocrine disrupting properties**

Not available

**12.7 Other adverse effects**

Harmful to aquatic life with long lasting effects.

Uniconazole is slightly toxic to bobwhite quail and mallard ducks. It is relatively non-toxic to honeybees based on a single acute contact toxicity study. It is very slightly toxic to earthworms.

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**SECTION 13: Disposal considerations**

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**13.1 Waste treatment methods****Product**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Packing**

Empty containers should be taken for local recycling, recovery or waste disposal.

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**SECTION 14: Transport information**

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**14.1 Un number**ADR/RID: -IMDG: -IATA: -**14.2 Proper shipping name**ADR/RID: Not regulatedIMDG: Not regulatedIATA: Not regulated**14.3 Transport hazard class(es)**ADR/RID: -IMDG: -IATA: -**14.4 Packing group**ADR/RID: -IMDG: -IATA: -**14.5 Environmental hazard**

Marine Pollutant: N/A

**14.6 Special precautions for user**

Not available

**14.7 Transport to bulk according to Annex II of MARPOL 79/78 and the IBC Code**

Not available

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**SECTION 15: Regulatory information**

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This SDS complies with the following requirements of:

EU Regulation (EC) No.1907/2006 (REACH) including amendments

Regulation (EC) No.1272/2008 (CLP)

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

Not available

**15.2 Chemical safety assessment**

Not available

**SECTION 16: Other information****Full text of Hazards Statements referred to in sections 2 and 3:**

Acute Tox. - Acute toxicity

Eye Dam. - Serious eye damage

Skin Sens. - Skin sensitization

Aquatic Chronic - Hazardous to the aquatic environment

H302: Harmful if swallowed.

H318: Causes serious eye damage.

H317: May cause an allergic skin reaction.

H412: Harmful to aquatic life with long lasting effects.

H411: Toxic to aquatic life with long lasting effects.

Training advice: Before using/handling the product one must read carefully present SDS.Key Legend Information:

CAS - Chemical Abstract Service

N/A - Not available

H - statements- Hazard statements

TLV - Threshold Limit Value

TWA - Time-weighted average

STEL - Short-Term Exposure Limit

CSA - Chemical safety assessment

OEL - Occupational exposure limit

LTEL - Long-term Exposure Limit

STEL - Short-term Exposure Limit

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