

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: Meadow

### **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**

Merhav 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: [agro@gadotagro.com](mailto:agro@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 to Regulation (EC) No. 1272/2008 (CLP):

Repr. 2 H361d

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

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):

H361d: Suspected of damaging the unborn child.

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

Precautionary Statement(s):

P201: Obtain special instructions before use.

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

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P308 + P313: IF exposed or concerned: Get medical advice/attention.

P273: Avoid release to the environment.

### **2.3 Other hazard**

Not available

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

**3.2 Mixtures:**

Substance name	Identifiers	%	CLP Classification
Paclobutrazol	CAS number: 76738-62-0 EC number: 616-379-6	28	Flam. Sol. 1 H228 Acute Tox. 4 H302 Eye Irrit. 2 H319 Acute Tox. 4 H332 Repr. 2 H361d Aquatic Acute 1 H400 Aquatic Chronic 1 H410
Isononylphenol, ethoxylated	CAS number: 37205-87-1 EC number: 609-346-2	<3	Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Dam. 1 H318 Aquatic Chronic 2 H411

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.**

**SECTION 4: First aid measures**

**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

**SECTION 5: Fire-fighting measures**

**5.1 Extinguishing media**

Suitable: Use an extinguishing agent suitable for surrounding fire.

Not suitable: N/A

**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. Keep away from sources of ignition - No smoking.

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 in a dark, dry, cool and well-ventilated place. 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.

#### Person 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

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

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### **9.1 Information on basic physical and chemical properties**

Appearance: Off-white/buff/beige liquid

Odour: N/A

Odour threshold: N/A

pH: 6.38

Melting point/Freezing point: N/A

Initial boiling point/boiling range: 100°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: 1.062 g/mL

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

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## **SECTION 10: Stability and reactivity**

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### **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
Meadow	LD50, Oral	Rat	>2000 mg/kg
	LD50, Dermal	Rat	>2000 mg/kg
	LC50, Inhalation	Rat	>1.53 mg/l/4H
Isononylphenol, ethoxylated	LD50, Oral	Rat	<2000 mg/kg
Paclobutrazol	LD50, Oral	Rat	1300 mg/kg
	LD50, Dermal	Rat	>1000 mg/kg
	LC50, Inhalation	Rat	369000 mg/m <sup>3</sup> /4H

Skin corrosion/irritation: Non-irritant.

Serious eye damage/irritation: Non-irritant.

Respiratory or skin sensitization: Non-sensitizer to skin.

Germ cell mutagenicity: Not available

Carcinogenicity: Not available

Reproductive toxicity: Suspected of damaging the unborn child.

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
Paclobutrazol	-	LC50/96h Oncorhynchus mykiss (rainbow trout) – 27.8 mg/l	EC50/48h Daphnia magna (Water flea) – 28.7 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 Other adverse effects**

Very toxic to aquatic life with long lasting effects.

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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: 3082

IMDG: 3082

IATA: 3082

### **14.2 Proper shipping name**

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Paclobutrazol)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Paclobutrazol)

IATA: Environmentally hazardous substance, liquid, n.o.s. (Paclobutrazol)

### **14.3 Transport hazard class(es)**

ADR/RID: 9

IMDG: 9

IATA: 9

### **14.4 Packing group**

ADR/RID: III

IMDG: III

IATA: III

### **14.5 Environmental hazard**

Marine Pollutant: yes

### **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

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**SECTION 16: Other information**

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**Full text of Hazards Statements referred to in sections 2 and 3:**

Flam. Sol. - Flammable solid  
Eye Irrit. - Eye irritation  
Eye Dam. - Serious eye damage  
Skin Irrit. - Skin irritation  
Acute Tox.- Acute toxicity  
Aquatic Acute - Hazardous to the aquatic environment  
Aquatic Chronic - Hazardous to the aquatic environment  
Repr. - Reproductive toxicity  
H228: Flammable solid.  
H302: Harmful if swallowed.  
H332: Harmful if inhaled.  
H361d: Suspected of damaging the unborn child.  
H315: Causes skin irritation.  
H318: Causes serious eye damage.  
H319: Causes serious eye irritation.  
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.

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

Key Legend Information:

CAS - Chemical Abstract Service  
ACGIH - American Conference of Governmental Industrial Hygienists  
OSHA - Occupational Safety and Health Administration  
NTP - National Toxicology program  
IARC - International Agency for Research on Cancer  
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

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