

## MATERIAL SAFETY DATA SHEET

### 1. Identification of the substance/preparation and company/undertaking

**Preparation name:** CAROUSEL

**Use of preparation:** Horticultural plant growth regulator for professional use

**Supplier:** Fine Agrochemicals Ltd, Hill End House, Whittington  
Worcester, WR5 2RQ, Tel: +44 (0) 1905 361800

### 2. Composition/Information On Ingredients:

**Product:** An aqueous suspension of paclobutrazol.

**Cas No:** 76738-62-0 (active ingredient)

**Einecs No:** 266-325-7 (active ingredient)

<b>Hazardous Ingredients:</b>	<b>Classification:</b>	<b>Concentration: (% W/V)</b>
Paclobutrazol	Xn, N, R20/22 R36 R51/53	25%

### 3. Hazards identification

Irritating to the eyes. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4. First aid measures

**After inhalation:** Remove patient from exposure, keep warm and at rest. Obtain medical attention as a precaution.

**After skin contact:** Immediately take off all contaminated clothing. Wash skin immediately with water, followed by soap and water. Such immediate action is essential to minimise skin contact. If unwell, seek medical attention. Contaminated clothing must be thoroughly washed before re-use.



#### 4. **First aid measures** (cont'd.)

- After eye contact: Irrigate eyes with running water for at least 15 minutes. Obtain Immediate medical attention.
- After swallowing: If swallowed, seek medical advice immediately, and show the container, label, or this data sheet. Do not induce vomiting.

#### 5. **Fire fighting measures**

- Flammability: Non-flammable.
- Extinguishing Media: For small fires use foam, carbon dioxide, halon or dry powder extinguishers. For large fires use foam or water-fog; avoid the use of water jets. Keep fire exposed containers cool by spraying with water.
- Fire Fighting Equipment: Wear full protective clothing and self-contained breathing apparatus.
- Special exposure hazards: Water used for extinguishing must be retained and not allowed to contaminate water courses.

#### 6. **Accidental release measures**

##### Personal Precautions

Wear full protective clothing, see Section 8. Exposure control/personal protection

##### Environmental precautions

Prevent contaminated water entering drains. Spillages or uncontrolled discharges into water courses or sewers must be alerted to the appropriate authority.

##### Methods for cleaning up

Isolate spilled material for safe disposal, using suitable absorbent media, and collect in sealable polylined containers. Clean contaminated area with water and dispose of waste-water safely.



**7. Handling and storage**

Read the label before use.

**Handling**

Keep away from food, drink and animal foodstuffs. Do not smoke in the workplace. Avoid contact with spray. Wash thoroughly after handling. Do not use on food crops.

**Storage**

Store in cool dry conditions in original well marked containers, out of reach of children. Protect from frost.

**8. Exposure controls/personal protection**

**Exposure controls**

To avoid risks to man and the environment comply with instructions for use. Also see Section 15. Regulatory Information.

**Occupational exposure controls**

- Respiratory protection

Work in well ventilated areas.

- Hand protection

Acid resistant gloves with a minimum 0.5mm thickness should be worn with sleeves worn over the top of the gloves.

- Eye protection

Glasses/goggles should be worn or face mask used.

- Skin protection

Wear sensible regularly laundered overalls.

**9. Physical and chemical properties:**

**General information**

Appearance: Off-white/beige liquid

Odour: None

**Important health, safety and environmental information**

pH (1% solution): Not available

Boiling Point: 100°C, aqueous solution



## 9. Physical and chemical properties: (cont'd.)

Flash point:	Does not flash
Flammability:	Non-flammable
Explosive properties:	Not applicable
Oxidising properties:	Not applicable
Vapour pressure:	No data
Relative density (D <sup>20</sup> <sub>4</sub> ):	1.09 g/ml
Solubility	
- water solubility @ 20°C:	Forms stable suspension
- solvent solubility:	Active ingredient is soluble in methanol and acetones
Partition coefficient:	No data
Viscosity:	
Vapour density:	No data
Evaporation rate:	No data

## 10. Stability and reactivity

Stable in original containers for at least 2 years at ambient temperatures.

Conditions to avoid

- Excessive heat. Thermal decomposition will evolve toxic and irritant vapours.

Materials to avoid

- Incompatible with strong oxidising agents.

Hazardous decomposition products

- None under normal conditions of storage and use.

## 11. Toxicological information

Acute toxicity

Oral: LD<sub>50</sub> rat > 2,000 mg/kg (Low oral toxicity)

Dermal: LD<sub>50</sub> rat > 1,000mg/kg

Inhalation: Unlikely to cause harmful effects when handled and used as directed on the label.

Irritation

Eye: Slight/mild irritant to rabbit eyes.

Skin: Non-irritant

Respiratory tract: No data



**11. Toxicological information (cont'd.)**

Sensitisation  
Skin: Non-sensitising

Carcinogenicity: Not carcinogenic  
Mutagenicity: Not mutagenic  
Reproductive tox: No data  
Chronic tox: No data

**12. Ecological information**

Ecotoxicity (active ingredient)  
Fish: LC<sub>50</sub> (96h) >538 mg/l for rainbow trout  
Unlikely to be hazardous to aquatic life.

**13. Disposal considerations**

Product  
May be taken to waste disposal site or incineration plant when in compliance with local regulations refer to the local waste regulation authority.

Packaging  
Empty containers should be washed and discarded and should not used for other purposes. Disposal should be in accordance with local or national regulation.

**14. Transport information**

UN number: Not classified  
Class: Not classified  
Proper shipping name: Not classified  
Packaging group: Not classified  
Marine Pollutant: Not classified  
Other applicable information: None



**15. Regulatory Information**

<b>Symbol(s):</b>	<b>Xi</b>	<b>IRRITANT</b>
<b>Risk Phrases:</b>	R36 R52/53	Irritating to the eyes. Harmful to aquatic organisms, may cause long-term adverse effects on the aquatic environment.
<b>Safety Phrases:</b>	S2 S13 S20/21 S26/28 S35  S36/37 S49 S57	Keep locked up and out of reach of children Keep away from food, drink & animal feed stuffs When using do not eat, drink or smoke Wash substance from skin or eyes immediately This material and its container must be disposed of in a safe way. Wear suitable protective clothing and gloves Keep in original container Use appropriate containment to avoid environmental contamination.
<b>Specific provisions:</b>		Restricted to professional users To avoid risks to man and the environment, comply with the directions for use.

**16. Other information:**

For further information on the product and product use refer to the product label.

This version replaces all previous versions.

