Material Safety Data Sheet: BOUNTY

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

   MAPP Number: MAPP 14616
   Trade Name: Bounty
   Recommended Uses: Fungicide for disease control of weeds in cereals, oilseed rape, sugar beet and grass crops
   Manufacturer/Supplier: AgChemAccess Ltd
   Cedar House
   41 Thorpe road
   Norwich
   Norfolk
   NR1 1ES
   Telephone number: 0845 4599413
   Fax Number: 020 71498815
   E-mail: enquire@agchemaccess.com
   Emergency Telephone Nos: 01865 407333 [Carechem]
   0870-600-6266 [UK National Poisons Control Information Service (NPIS) Centre]
   01-8379964/66 [Poisons Information Centre, Beaumont Hospital, Beaumont, Dublin 9, Ireland]

2. Hazards Identification

   Environmental hazard in case of accident (spillage or leakage): Very toxic to aquatic organisms; may cause long term adverse effects in the aquatic environment.

3. Composition/Information on Ingredients

   HAZARDOUS COMPONENTS:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Reg. No.</th>
<th>EINECS ELINCS No.</th>
<th>Conc. % w/w</th>
<th>Risk Phrases*</th>
<th>Hazard Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propiconazole</td>
<td>60207-90-1</td>
<td>262-104-4</td>
<td>21.7</td>
<td>R22, R43, R50-53</td>
<td>Xn, N</td>
</tr>
<tr>
<td>CaABS/n-butanol</td>
<td>-</td>
<td>-</td>
<td>3.5</td>
<td>R22, R37/38 R41, R67</td>
<td>Xn, Xi</td>
</tr>
<tr>
<td>Plus inert ingredients to make up the balance.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   * See Section 16 for details of risk phrases.

4. First Aid Measures

   General: Have the product container, label or Materials Safety Data Sheet with you when calling the Poisons Information Service, AgChemAccess, a physician or when going for medical treatment. Move out of contaminated area and place victim in the recovery position if necessary. Remove contaminated clothing and dispose of safely.

   Skin Contact: Wash affected area immediately with plenty of water. Remove contaminated clothing and wash thoroughly before re-use. If symptoms persist, consult a doctor.

   Eye Contact: Will cause redness and tears. Rinse immediately with plenty of water for at least 15 minutes, including under eyelids. Remove contact lenses if worn. Consult an eye specialist if pain or discomfort persists.

   Inhalation: Remove patient to fresh air and seek medical advice in the event of any complaints. Keep the patient warm and at rest.
### Ingestion:
If swallowed, contact poison control centre or seek medical advice immediately and show product container or label. Induce vomiting. Rinse mouth with clean water and dispose of residues safely.

**Further Information:** *Note to medical staff:* Gastric lavage followed by activated charcoal (carbo medicalis) is suggested where ingested. Otherwise treat symptoms as they occur and give supportive care. There is no specific antidote.

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### 5. Fire-fighting Measures

**Extinguishing media for fires:** Use water spray, foam, sand or carbon dioxide.

**Specific hazards during fire-fighting:** During a fire the smoke produced may contain chlorides, carbon monoxide, nitrous oxides and carbon dioxide.

**Special protective equipment for fire-fighters:** Wear full protective clothing and self-contained breathing apparatus. DO NOT breathe fumes.

**Further Information:** Contain fire-fighting water with sand or some such binding material to prevent entry to drains or water courses. Avoid breathing smoke. Cool closed containers exposed to the fire with a water spray.

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### 6. Accidental Release Measures

**Personal precautionary measures:** Wear the personal protective equipment outlined in section 8 below. Remove contaminated clothing immediately. Wash skin area with soap and water. Wash clothing before re-use.

**Environmental protection measures:** Keep the area isolated and do not allow contamination to enter drains or waterways. Prevent further leakage if safe to do so. Spillage or uncontrolled discharges into watercourses must be alerted to the National Rivers Authority or Environmental Agency (Tel: 0800 807060).

**Procedures for cleaning/absorption:** Soak up with sand or other non-combustible absorbent material using mechanical handling equipment and place in containers for disposal according to local/national regulations (see section 13). Clean contaminated floors and objects thoroughly and dispose of cleaning equipment safely. For large spillages, barricade the area and consult the manufacturer.

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### 7. Handling and Storage

**Handling:** Use the personal protective equipment detailed in section 8. Do not breathe fumes. Avoid contact with skin or eyes. When using, do not eat, drink or smoke and wash hands and exposed skin after work.

**Storage:** Store in a cool dry and well-ventilated place in the original containers and protect from excessive heat or cold. Keep in an area accessible to authorised personnel only. Store away from food, drink, animal feeding stuffs, pharmaceuticals, cosmetics and fertilisers.

**Additional information:** The product is stable for at least two years when stored at ambient temperatures in the unopened container. Ensure temperature does not exceed 40 °C. Suitable storage containers are metal drums coated with epoxy resin, drums with a polyethylene liner or co-extruded polyethylene bottles.

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### 8. Exposure Controls/Personal Protection

**Engineering measures to reduce exposure:** Engineering controls to avoid exposure are preferable to personal protective equipment where practically feasible to use. Premises where this product is handled should have eyewash facilities and a safety shower.

**Personal protective equipment:** Avoid contact with skin, eyes or clothing. Keep work clothes separate from other clothing. Clothing that cannot be cleaned should be burned. When using, consult the label for appropriate protective equipment. In all other situations, use the following personal protective equipment.

**Eye protection:** Wear eye protection (safety glasses) with side shields. Where contact with the liquid is a risk, chemical goggles or a face shield are recommended.

**Hand protection:** Wear chemical-resistant gloves specified to Standard EN 374 made of nitrile, polyvinyl chloride or neoprene. Wash contamination from the gloves immediately and dispose of safely if perforated or contaminated on the inside. Wash hands before eating, drinking or smoking and before using the toilet.

**Respiratory protection:** When handling opened containers of the product or when spraying, wear a respirator which conforms to EN149FFP3 or EN140P3.

**Skin and body protection:** Wear suitable chemical-resistant protective clothing based on the potential exposure risk over normal clothes to provide two barriers and wear chemical-resistant boots. When finished, wash with soap and water after removing protective clothing. Do not eat, drink or smoke while working. Store away from food, drink or animal feeding stuffs.
9. Physical and Chemical Properties

Appearance: Liquid
Colour: Light brown, tan
Odour: Weak, characteristic smell
Molecular weight: 342.2 (propiconazole)
Boiling point: Propiconazole decomposes at temperatures above 300 °C
Explosive risk: Not explosive
Vapour pressure: \(2.01 \times 10^{-4}\) Pas (propiconazole)
Density: 0.98 – 1.0 g/ml
Octanol/water partition co-eff.: 3.51 (propiconazole)
Flash point: 107 °C (closed cup)
Autoignition temp: 265 °C
Water solubility: Emulsifiable. Propiconazole = 150mg/l at 20 °C

10. Stability and Reactivity

Stability: Stable under normal storage conditions.
Conditions to avoid: Extremes of temperature (below -10 °C or above 40 °C) and direct sunlight.
Materials to avoid: Strong acids and strong bases.
Hazardous reactions: None known when stored or used as recommended.

11. Toxicological Information

Oral toxicity (LD\(_{50}\)): >2000 mg/kg (rat)
Acute dermal toxicity (LD\(_{50}\)): >2.000 mg/kg (rat)
Acute inhalation toxicity (LC\(_{50}\)): 9.46 mg/l (rat) over 4 hours
Skin irritation: Slight irritation (rabbit)
Eye irritation: Slight irritation to eyes (rabbit)
Sensitisation: Not sensitising (guinea pig skin)

Propiconazole is not carcinogenic in rats, not mutagenic and not teratogenic in animal experiments.

12. Ecological Information

Ecotoxicological effects:
Toxicity to fish (LC\(_{50}\)): 3.72 mg/l, Exposure time 96 hours.
Toxicity to algae (EC\(_{50}\)): 26 mg/l [green algae], Exposure time 72 hours.
Toxicity to aquatic invertebrates (EC\(_{50}\)): 2.53 mg/l (Daphnia magna [water flea])
Toxicity to birds (LD\(_{50}\)): >2000mg/kg

Propiconazole does not leach to ground water and is rapidly degraded when exposed to sunlight or UV light. The bioaccumulative potential (BCF) = <100. It is non-toxic to bees.

13. Disposal Considerations

This product must be considered toxic to aquatic organisms.
Waste from residues and unused product: Do not contaminate ponds, waterways or ditches. In accordance with current regulations after consultation with a disposal site operator and/or the responsible authority, this product may be taken to a waste disposal site or an incineration plant.
Contaminated packaging: Empty containers and triple rinse. Dispose of empty containers according to the ‘Code of Practice for the Safe Use of Pesticides on Farms and Holdings’ available from HMSO. Do not re-use container for any purpose.
14. Transport Information

<table>
<thead>
<tr>
<th>LAND/SEA/AIR (RID / ADR / IMDG / IATA)</th>
<th>Labels</th>
<th>UN Number</th>
<th>Packaging group</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAND/SEA/AIR (RID / ADR / IMDG / IATA)</td>
<td>9</td>
<td>3082</td>
<td>III</td>
</tr>
</tbody>
</table>

**Description of goods:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains 25% propiconazole).

**Hazard No:** 90

**EMS:** None

15. Regulatory Information

This product has been classified according to ‘The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3 and any subsequent amendments. Classification and labelling is according to EC Directive on dangerous preparations 1999/45/EC as amended.

**Hazard symbol/Classification:** N DANGEROUS FOR THE ENVIRONMENT

**Risk phrases (R):**
- R50/53 Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

**Safety phrases:**
- S2 Keep out of reach of children
- S13 Keep away from food, drink and animal feeding stuffs
- S20/21 When using, do not eat, drink or smoke
- S46 If swallowed, seek medical advice immediately and show this label or the container
- S61 Avoid release into the environment. Refer to special instructions/Safety data Sheet

16. Other Information

**Health and Environmental Hazards:**
Text of R phrases mentioned in Section 2

**Risk phrases (R):**
- R10 Flammable
- R22 Harmful if swallowed
- R37/38 Irritating to respiratory system and skin
- R41 Risk of serious damage to eyes
- R43 May cause sensitization by skin contact
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- R67 Vapours may cause drowsiness and dizziness

**Date of issue:** October 2012

**Disclaimer:** The information contained in this MSDS is designed to give general health and safety guidance on the storage and transport of the substance/preparation to which it relates. Requirements arising from a Risk Assessment of the substance/preparation in a particular working environment should take precedence over any of the guidance contained in this MSDS where there is a difference in the information given. The information contained in this MSDS is accurate at the date of publication and will be updated as and when appropriate. Liability will not be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this MSDS.