



<p><b>1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY</b></p> <p>Safety Data Sheet for: <b>SPEEDWAY 2</b></p> <p><b>Common name of active ingredient:</b> Diquat ion as dibromide; Paraquat ion as dichloride</p> <p><b>Intended Use:</b> For use only by local authorities &amp; professional spray operators. For use only as a horticultural/industrial herbicide.</p> <p><b>Dilution:</b> Maximum individual dose: 330g product per 100 square metres. Dilution depends on situation of use and application method- Refer to product label.</p> <p><b>For further information contact:</b> Professional Business Group, The Scotts Company (UK) Limited, Paper Mill Lane, Bramford, Ipswich, England IP8 4BZ. Telephone: (01473) 830492. <b>24hr Emergency Line Tel:</b> 01865 407333</p> <p><b>Date of Introduction:</b> October 1998 <b>Date of Withdrawal:</b> <b>Date of Change:</b></p>																								
<p><b>2. COMPOSITION INFORMATION ON INGREDIENTS (Directive 91/155/EC)</b> Spec. No: 922/A/3</p> <table border="1"> <thead> <tr> <th>Ingredient(s)</th> <th>Composition</th> <th>CAS No</th> <th>Symbol</th> <th>R phrases</th> </tr> </thead> <tbody> <tr> <td>Paraquat</td> <td>2.5%w/w</td> <td>4685-14-7</td> <td>T</td> <td>R24/25 R36/37/38</td> </tr> <tr> <td>Diquat</td> <td>2.5%w/w</td> <td>2764-72-9</td> <td>T</td> <td>R24/25 R36/37/38</td> </tr> <tr> <td>Paraquat emetic</td> <td>&lt;1%w/w</td> <td>27277-00-5</td> <td>T</td> <td>R25</td> </tr> </tbody> </table>					Ingredient(s)	Composition	CAS No	Symbol	R phrases	Paraquat	2.5%w/w	4685-14-7	T	R24/25 R36/37/38	Diquat	2.5%w/w	2764-72-9	T	R24/25 R36/37/38	Paraquat emetic	<1%w/w	27277-00-5	T	R25
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<p><b>3. HAZARDS IDENTIFICATION</b> <b>Classification:</b> None      <b>Symbol(s):</b> Not required</p> <p><b>Ingestion:</b> IF SWALLOWED OBTAIN IMMEDIATE MEDICAL ATTENTION. SPEED IS ESSENTIAL. PARAQUAT CAN KILL IF SWALLOWED.</p> <p><b>Eye contact:</b> Non-irritant</p> <p><b>Skin contact:</b> May be irritating to skin</p> <p><b>Inhalation:</b> Unlikely to cause harmful effects under normal conditions of handling and use.</p> <p><b>PRECAUTIONS AND RELEVANT INFORMATION (from the label):</b> KEEP UNPROTECTED PERSONS OUT OF treated areas until the spray has dried • WEAR SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACE SHIELD) when handling the concentrate • WEAR FACE SHIELD when handling and applying the dilute formulation • TAKE OFF IMMEDIATELY all contaminated clothing • WASH CLOTHES before re-use • WHEN USING DO NOT EAT DRINK OR SMOKE • WASH SPLASHES from skin or eyes immediately. DO NOT BREATHE SPRAY MIST • WASH HANDS AND EXPOSED SKIN before meals and after work • KEEP OF REACH OF CHILDREN • HARMFUL TO ANIMALS. Keep grazing animals out of treated areas for at least 24 hours following treatment • DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container • IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, seek medical advice immediately (show the label leaflet where possible).</p>																								
<p><b>4. FIRST-AID MEASURES</b> <b>IF SWALLOWED: OBTAIN IMMEDIATE MEDICAL ATTENTION. SPEED IS ESSENTIAL.</b> Refer to the booklet 'The treatment of Paraquat poisoning'</p> <p><b>Ingestion:</b> <b>OBTAIN IMMEDIATE MEDICAL ATTENTION. SPEED IS ESSENTIAL.</b> Immediately transfer patient to nearest hospital or medical centre warning by telephone of the estimated arrival time so that the start of treatment is not delayed. <i>Induce vomiting</i>, if this has not already occurred, by tickling the back of the throat with a clean, blunt instrument, e.g., spoon handle.</p> <p><b>Eye contact:</b> Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least fifteen minutes. Obtain immediate medical attention.</p> <p><b>Skin contact:</b> Take off immediately all contaminated clothing. Wash skin immediately with water followed by soap and water. Contaminated clothing should be laundered before reuse. Obtain medical attention if symptoms develop.</p> <p><b>Inhalation:</b> Remove patient from exposure, keep warm and at rest. Obtain medical attention as a precaution.</p> <p>Medical advice: Give up to 1 litre of 15% aqueous suspension of Fuller's Earth orally or via gastric tube, together with a suitable purgative (200 ml of a 20% aqueous solution of mannitol). Hospital Treatment: Refer to booklet 'The Treatment of Paraquat Poisoning': A Practical Guide, 1994 (Zeneca). Wash out stomach and test urine and gastric aspirate (if clear) for presence of paraquat. Repeat administration of adsorbent plus purgative until adsorbent is seen in the stools. This should normally take between 4 and 6 hours after the start of treatment. Do not use supplemental oxygen.</p>																								

### 5. FIRE-FIGHTING MEASURES

Keep fire exposed containers cool by spraying with water. Extinguishing media: Small fires - use foam, carbon dioxide or dry powder extinguishant. Large fires - use foam or water-fog, avoid use of water jet. Contain run off water with, for example, temporary earth barriers. Protective equipment: Self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: (see also section 8) Ensure suitable personal protection during removal of spillages. This means wearing a face mask that gives protection against toxic dusts, eye protection, chemically resistant gloves, boots and coveralls. Clean up methods: Cover spillage with moist sand, soil or sawdust. Transfer to a container for disposal (see section 13). Wash the spillage area with water. Washings must be prevented from entering surface water drains. spillages or uncontrolled discharge into water courses must be alerted to the appropriate regulatory body.

### 7. HANDLING AND STORAGE

Read the label before use. Avoid contact with skin and eyes. When using do not eat drink or smoke. Wash face and hands before eating, drinking or smoking and after work. Storage Instructions: Keep in original container tightly closed. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Protect from extremes of temperature.

**Shelf life:** At least 2 years  
**Product packaging:** 4 kg polyethylene container (4x4kg outer)  
**Special precautions:** None

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**For normal use (from the label):** Do not apply from the air by means of a mist blower or fogging machine • KEEP UNPROTECTED PERSONS OUT OF treated areas until the spray has dried • WEAR SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACE SHIELD) when handling the concentrate • WEAR FACE SHIELD when handling and applying the dilute formulation • TAKE OFF IMMEDIATELY all contaminated clothing • WASH CLOTHES before re-use • WHEN USING DO NOT EAT DRINK OR SMOKE • WASH SPLASHES from skin or eyes immediately • DO NOT BREATHE SPRAY MIST • WASH HANDS AND EXPOSED SKIN before meals and after work • KEEP OUT OF REACH OF CHILDREN IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, seek medical advice immediately (show the label leaflet where possible).

#### Occupational Exposure Standard(s):

Paraquat Dichloride (respirable dust) OES: 0.08 mg/m<sup>3</sup> LTEL (8hr TWA).  
Diquat dibromide OES: 0.5 mg/m<sup>3</sup> LTEL (8hr TWA); 1.0 mg/m<sup>3</sup> STEL (15 min).  
Paraquat emetic – manufacturers standard OES: 0.02 mg/m<sup>3</sup> LTEL (8hr TWA).

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical nature:</b>	Not available	<b>Flash point:</b>	Does not flash
<b>Appearance / Odour:</b>	Not available	<b>Flammability:</b>	Not available
<b>Water solubility:</b>	Soluble	<b>Decomposition temperature:</b>	Not available
<b>Lipid solubility:</b>	Not available	<b>Hazardous polymerization:</b>	Not available
<b>Bulk Density:</b>	0.7-0.8	<b>Explosion limits:</b>	Not applicable
<b>Boiling point:</b>	Not available	<b>pH:</b>	Not available
<b>Oxidising properties:</b>	Not applicable	<b>Other:</b>	Not available

### 10. STABILITY AND REACTIVITY

**Stability (normal conditions):** 2 years  
**Conditions to avoid:** None known  
**Incompatible with:** Paraquat and diquat are highly corrosive to most metals, e.g., aluminium, zinc, iron.  
**Hazardous decomposition products:** Combustion or thermal decomposition will evolve toxic, irritant and flammable vapours.

### 11. TOXICOLOGICAL INFORMATION

<b>Acute Oral LD50:</b>	<b>PARAQUAT CAN KILL IF SWALLOWED</b> Median Lethal Dose 1795 mg formulation/kg (male rat) 2797 mg formulation/kg (female rat).	<b>Inhalation:</b>	Unlikely to cause harmful effects under normal conditions of handling and use.
<b>Acute Dermal LD50:</b>	Median Lethal Dermal Median Lethal Dose >2000 mg/kg (rat)	<b>Skin :</b>	May be irritating to skin. Not a skin sensitiser in animal tests (Buehler).
		<b>Eyes:</b>	Not irritating to eyes.
		<b>Other:</b>	No long term risks to man are associated with the normal handling and use of this material.

**References:** Supplier

### 12. ECOLOGICAL INFORMATION

**Other:** Paraquat and diquat are rapidly adsorbed and deactivated by soil. Unlikely to be hazardous to aquatic life.  
**Precautions (from the label):** HARMFUL TO ANIMALS. Keep grazing animals out of treated area for at least 24 hours following treatment • DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

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