

1	Identification of the preparation and the supplying Company	<b>Howes Olympic Algaecide</b> Killgerm Chemicals Ltd, Denholme Drive, Ossett, West Yorkshire, WF5 9NA. Tel: +44 (0)1924 268450 Fax: (0)1924 265033 Email: <a href="mailto:technical@Killgerm.com">technical@Killgerm.com</a>	
2	Composition and information on ingredients	Benzalkonium Chloride solution - 66.0%w/w. C. R34. R21/22. R50. <u>See paragraph 16 for full text of R-phrases and hazard classification of ingredients.</u>	
3	Hazards identification	C. Corrosive – Causes burns. R34. Xn. Harmful - Harmful in contact with skin and if swallowed. N. <b>Dangerous for the environment – Very toxic to aquatic organisms.</b> R50.	
4	First Aid measures	Ingestion:	Wash out mouth with water, avoid contaminating body. Remove contaminated clothing. Give small quantity of milk or water to drink. Get medical advice.
		Skin contact:	Wash with water. Remove contaminated clothing. Re-wash skin. Get medical advice if irritation or skin-colour change symptoms occur or if contact is more than trivial (i.e.- greater than palm sized).
		Eye contact:	Wash for 10 mins with water. Get medical advice. Avoid initial washings contaminating clothing and other parts of body.
		Advice to doctor:	Contains surface active detergent.
5	Fire-fighting measures	Extinguishers:	Use dry chemical or foam fire extinguishers. Toxic fumes will be evolved in a fire. <u>Self-contained breathing apparatus should be worn by fire fighters.</u>
6	Accidental release measures	Spillage (containment and disposal):	Small spillages- mop up, then mop over area with soap and water. Large spillages- Prevent spreading by surrounding with sand, earth, rags etc. Absorb, then shovel whole lot into a marked plastic container. Contact supplier for advice about disposal. Wash contaminated area with soap and water. <u>Area may be slippery.</u>
7	Handling and storage	Precautions in use:	FOR USE ONLY BY PROFESSIONAL OPERATORS. Wear suitable protective clothing, gloves and eye/face protection. Do not breathe spray. Otherwise wear respiratory protective equipment and eye protection (See HSE guidance booklet (HS)G53: "The Selection, Use and Maintenance of Respiratory Protective Equipment – A Practical Guide"). AVOID EXCESSIVE CONTAMINATION OF COVERALLS AND LAUNDER REGULARLY. TAKE OFF IMMEDIATELY all contaminated clothing. COVER WATER STORAGE TANKS before application. REMOVE OR COVER ALL FOODSTUFFS before application. UNPROTECTED PERSONS AND ANIMALS SHOULD BE KEPT AWAY FROM TREATED AREAS FOR 48 HOURS OR UNTIL SURFACES ARE DRY. REMOVE OR COVER ALL FISH TANKS AND BOWLS before application. AVOID ALL CONTACT WITH PLANT LIFE. PREVENT ANY SURFACE RUN-OFF FROM ENTERING DRAINS. This material and its container must be disposed of in a safe way. WASH ANY CONTAMINATION FROM SKIN OR EYES IMMEDIATELY. WASH HANDS AND EXPOSED SKIN before meals and after use. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
		Storage and transport precautions:	KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS. Keep out of the reach of children. Keep only in the original container. Keep container tightly closed. KEEP IN A SAFE PLACE. Use appropriate containment to avoid environmental contamination.
8	Exposure controls and personal protection	PPE Item	In Use
		Respirator	Spillage If required, half mask to EN140 plus AP to EN143 class filter to required protection factor.
		Gloves	Unlined synthetic rubber/PVC gloves.
		Overall	Unlined synthetic rubber/PVC gloves. Coverall to type 5/6 plus apron when handling the concentrate. Coverall to type 4.
		Goggles/ Face shield	Face shield to EN166. Face shield to EN166.
9	Physical and chemical properties	Appearance:	A pale green/yellow slightly viscous liquid.
		pH:	Of concentrate at manufacture is between 2.0 and 7.0 the pH drops on storage but this has no effect whatsoever on the fluid properties.
		Flash point:	None
		Flammability:	Will not burn at ordinary temperatures. Not considered a fire hazard.
		Bulk density:	1.00
		Solubility:	Soluble in water.
		Odour:	Characteristic- slight odour.
		Incompatibility:	Store away from strong oxidising agents.
10	Stability and reactivity	Not a reactive preparation.	
11	Toxicological information	Routes of entry/symptoms of contact:	
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# Safety Data Sheet      Howes Olympic Algaecide

Inhalation: Risk via this contact route is very low.

Skin and eyes: Irritating.

Ingestion: Harmful if swallowed. Irritation to mouth, gastro-intestinal tract and stomach.

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12	Ecological information	<ul style="list-style-type: none"><li>Preparation is classified as (N) Dangerous for the environment. Very toxic to aquatic organisms.</li><li>The active ingredient giving rise to this classification is rapidly degraded on contact with soils, waste waters and organic matter.</li><li>Preparation is readily biodegradable and not bioaccumulable. In sewerage treatment plants, preparation is readily removed via bio elimination.</li><li>Harmful to fish and other aquatic life. Avoid all contact with plant life. Prevent any surface run-off from entering drains.</li></ul>
13	Disposal considerations	Empty containers, 5L, plastic: Controlled, non-hazardous waste. EWC code 15 01 02. Unused/recovered materials: Contact local authority waste disposal section or supplier for advice on disposal. Contaminated PPE, wipes: Low level of contamination- controlled, non-hazardous waste. EWC code 15 02 03, High level of contamination- controlled waste. Contact local authority waste disposal section or supplier for advice.
14	Transport information	UN no. 3265. Class 8. Packing Group III. Marine pollutant. Corrosive liquid, acidic, organic. N.O.S. Contains 33% benzalkonium chloride (QAT).
15	Regulatory information	<ul style="list-style-type: none"><li>This preparation has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3. These implement the Dangerous Preparations Directive- 99/35/EC. This Safety Data Sheet complies with CHIP 3 requirements and the Safety Data Sheets Directive 91/155/EEC (as amended by Directives 93/112/EC and 2001/58/EC).</li><li>Restricted to professional users.</li><li>Refer to other relevant measures such as the Health and Safety at Work etc Act 1974 and the COSHH regulations and guidance.</li><li>The information contained in this data sheet does not constitute the user's own assessment of workplace risks as required by legislation.</li><li>Hazard symbols: - C_ Corrosive. N_ Dangerous for the environment.</li><li>Risk phrases: - R35_ Causes burns. R21/22_ Harmful in contact with skin and if swallowed.</li><li>Safety phrases: - S2- Keep out of the reach of children. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection. S45- In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).</li><li>This product is approved under the Control of Pesticides Regulations 1986.</li><li>This data sheet has been amended in sections 2, 3, 7, 8, 12, 13, 14, 15 &amp; 16 since the previous revision/issue.</li></ul>
16	Other information	Use only in accordance with label instructions. Ingredient classification data: C_ Corrosive. N_ Dangerous for the environment. Xn_ Harmful. R34- Causes burns. R21/22- Harmful in contact with skin and if swallowed. The information in this data sheet should be considered when undertaking a risk assessment under the COSHH regulations. This data sheet does not constitute a COSHH assessment. The information contained within this data sheet is strictly for general guidance only and should not be relied upon over and above this. This data sheet is intended to provide general health and safety guidance on the handling, storage and transportation of the preparation. The information provided in this data sheet is accurate at the date of publication and will be updated as and when appropriate. No liability will be accepted by Killgerm Chemicals Limited for any loss, injury or damage arising from any failure to comply with the information and advice contained within this data sheet and/or failure to comply with the manufacturer's guidelines, product label data and any associated technical usage literature.

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