

PRODUCT NAME: **Benchmate**

### 1. IDENTIFICATION OF MATERIAL & SUPPLIER

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**SYNONYM(S)** BENCHMATE CONCENTRATE  
**USE(S)** CLEANER • SANITISER  
**MSDS DATE:** 04 July 2011

### 2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

<b>UN No.</b>	None Allocated	<b>DG Class</b>	None Allocated	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Pkg Group</b>	None Allocated	<b>Hazchem Code</b>	None Allocated	<b>EPG</b>	None Allocated

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	FORMULA	CAS NO.	CONTENT
Non Hazardous Ingredients	Not available	Not available	←10%
Quaternary Ammonium compound	Not available	Not available	←10%
Surfactant	Not available	Not available	←10%
Water	H2O	7732-18-5	→60%

### 4. FIRST AID MEASURES

**EYE** Hold eyelids apart and flush continuously with water. Continue until advised to stop by the Poisons Information Centre, a doctor, or for at least 15 minutes. Keep patient calm.

**INHALATION** If over exposure occurs leave exposure area immediately. If irritation persists, seek medical attention.

**SKIN** Gently flush affected areas with water. Seek medical attention if irritation develops.

**INGESTION** For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor. If swallowed, do not induce vomiting.

**ADVICE TO DOCTOR** Treat symptomatically

**FIRST AID FACILITIES** Eye wash facilities and a hand wash basin are recommended.

### 5. FIRE FIGHTING MEASURES

<b>FLAMMABILITY</b>	Non-flammable. May evolve toxic gases (carbon/ nitrogen oxides, ammonia, chlorides, hydrocarbons) when heated to decomposition.
<b>FIRE &amp; EXPLOSION</b>	Non-flammable. Evacuate area and contact emergency services. Toxic gases (carbon/ nitrogen oxides, ammonia, hydrocarbons, chlorides) may be evolved when heated. Remain upwind & notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use water-fog to cool intact containers & nearby storage areas.
<b>EXTINGUISHING</b>	Non-flammable. Prevent contamination of drains or waterways, absorb runoff with sand or similar.
<b>HAZCHEM CODE</b>	None Allocated

### 6. ACCIDENTAL RELEASE MEASURES

<b>SPILLAGE</b>	If spilt (bulk), wear splash-proof goggles and PVC/rubber gloves. Absorb spill with sand or similar and place in sealed containers for disposal. Wash spill site down with water. For small amounts, dilute with water and flush to sewer. Caution; surfaces may be slippery.
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### 7. STORAGE AND HANDLING

<b>STORAGE</b>	Store in cool, dry, well-ventilated area, removed from strong oxidising agents (e.g. hypochlorites, peroxides, nitrates), anionic detergents (e.g. soaps), heat sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills.
<b>HANDLING</b>	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

### 8. EXPOSURE CONTROLS / PERSONAL EQUIPMENT

<b>EXPOSURE STANDARDS</b>	No exposure standard(s) allocated.
<b>BIOLOGICAL LIMIT VALUES</b>	No biological limit allocated.
<b>ENGINEERING CONTROLS</b>	Ensure adequate natural ventilation.
<b>PPE</b>	Wear splash-proof goggles and rubber or PVC gloves. When using large quantities or where heavy contamination is likely, wear a PVC apron, safety boots, coveralls and a face-shield.

### 9. PHYSICAL & CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	CLEAR COLOURLESS LIQUID	<b>SOLUBILITY (WATER):</b>	SOLUBLE
<b>ODOUR:</b>	ODOURLESS	<b>SPECIFIC GRAVITY:</b>	NOT AVAILABLE
<b>pH:</b>	NEUTRAL (Approximately)	<b>% VOLATILES:</b>	96 % (Approximately)
<b>VAPOUR PRESSURE:</b>	23 hPa @ 20°C	<b>FLAMMABILITY:</b>	NON FLAMMABLE
<b>VAPOUR DENSITY:</b>	NOT AVAILABLE	<b>FLASH POINT:</b>	NOT RELEVANT
<b>BOILING POINT:</b>	100°C	<b>UPPER EXPLOSION LIMIT:</b>	NOT RELEVANT

<b>MELTING POINT:</b>	← 0°C	<b>LOWER EXPLOSION LIMIT:</b>	NOT RELEVANT
<b>EVAPORATION RATE:</b>	AS FOR WATER	<b>AUTOIGNITION:</b>	NOT AVAILABLE
<b>DENSITY:</b>	1 g/mL (Approximately)		

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### 10. STABILITY & REACTIVITY

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<b>MATERIAL TO AVOID:</b>	Incompatible with strong oxidising agents (e.g. peroxides, nitrates, hypochlorites) and anionic detergents (e.g. soaps).
<b>DECOMPOSITION:</b>	May evolve toxic gases (carbon/ nitrogen oxides, ammonia, chlorides, hydrocarbons) when heated to decomposition.

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### 11. TOXICOLOGICAL INFORMATION

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<b>HEALTH HAZARD SUMMARY</b>	This product has the potential to cause acute and chronic health effects with over exposure. Avoid eye or skin contact and vapour generation - inhalation. Upon dilution, the potential for adverse health effects will be reduced markedly. Potential sensitiser. Those individuals with pre-existing skin, eye or respiratory allergies may be more susceptible to adverse effects.
<b>EYE</b>	Exposure may result in irritation, pain and redness.
<b>INHALATION</b>	Over exposure to vapours/mists may result in respiratory irritation, nausea, and headache. Occupational exposure to quaternary ammonium compounds has been reported to cause asthma, although rare. Due to the low vapour pressure, an inhalation hazard is not anticipated, unless sprayed.
<b>SKIN</b>	Prolonged and repeated contact may result in mild skin irritation and possible sensitisation in some individuals.
<b>INGESTION</b>	With large doses ingestion may result in nausea, vomiting and gastrointestinal irritation.
<b>TOXICITY DATA</b>	No LD50 data available for this product.

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### 12. ECOLOGICAL INFORMATION

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<b>ENVIRONMENT</b>	Benzalkonium chloride derivatives/quaternary ammonium compounds are commonly used as disinfectants, indicating toxicity to microorganisms. Benzalkonium chloride is toxic to trout above 2 ppm.
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### 13. DISPOSAL CONSIDERATION

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<b>WASTE DISPOSAL</b>	For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. For larger amounts, contact the manufacturer for additional information. Prevent contamination of drains or waterways as aquatic life may be threatened and environmental damage may result.
<b>LEGISLATION</b>	Dispose of in accordance with relevant local legislation.

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### 14. TRANSPORT INFORMATION

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#### NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

<b>SHIPPING NAME:</b>	None Allocated				
<b>UN No.</b>	None Allocated	<b>DG CLASS</b>	None Allocated	<b>SUBSIDIARY RISK(S)</b>	None Allocated
<b>Pkg GROUP</b>	None Allocated	<b>HAZCHEM CODE</b>	None Allocated	<b>EPG</b>	None Allocated

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### 15. REGULATORY INFORMATION

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**POISON SCHEDULE** A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**AICS** All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

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### 16. OTHER INFORMATION

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**ADDITIONAL** Additional Information

**INFORMATION:**

**EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES:** Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

**ABBREVIATIONS:**

ADB - Air-Dry Basis.

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

IARC - International Agency for Research on Cancer.

M - moles per litre, a unit of concentration.

mg/m<sup>3</sup> - Milligrams per cubic metre.

NOS - Not Otherwise Specified.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

ppm - Parts Per Million.

TWA/ES - Time Weighted Average or Exposure Standard.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:** The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**HEALTH EFFECTS FROM EXPOSURE:** It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

This document has been compiled by the manufacturer of the product and serves as the manufacturer's Material Safety Data Sheet ('MSDS'). It is based on information concerning the product which has been provided to Ecowash Solutions obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue.

While Ecowash Solutions have taken all due care to include accurate and up-to-date Information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Ecowash Solutions accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this MSDS.