

## Material Safety Data Sheet

**PRODUCT NAME MR MUSCLE ALL PURPOSE CLEANER**

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name** JOHNSONDIVERSEY AUSTRALIA PTY LTD  
**Address** 29 Chifley St, Smithfield, NSW, AUSTRALIA, 2164  
**Telephone** (02) 9757 0300  
**Fax** (02) 9725 5767  
**Emergency** 1800 033 111 (24 hrs)  
**Email**  
**Web Site** <http://www.johnsondiversey.com>

**Synonym(s)** HH14338 MR MUSCLE ALL PURPOSE CLEANER 9X750ML  
**Use(s)** ANTIBACTERIAL, CLEANING AGENT

### 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>Hazchem Code</b>	None Allocated	<b>Pkg Group</b>	None Allocated
<b>DG Class</b>	None Allocated	<b>Subsidiary Risk(s)</b>	None Allocated	<b>EPG</b>	None Allocated

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc.	CAS No.
ETHANOL	C2-H6-O	<10%	64-17-5
WATER	H2O	>60%	7732-18-5
BUILDERS	Not Available	<10%	Not Available
SOLVENT	Not Available	<10%	Not Available
PERFUME	Not Available	<1%	Not Available
QUATERNARY AMMONIUM COMPOUND	Not Available	<1%	Not Available
SURFACTANT	Not Available	<1%	Not Available

### 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 Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor. If swallowed, do not induce vomiting.

**Advice to Doctor** Treat symptomatically

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## 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 and 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 waterfog 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

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## 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 (eg. hypochlorites, peroxides, nitrates), anionic detergents (eg. 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 (eg. if container is damaged).

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Ventilation</b>	Ensure adequate natural ventilation. Maintain vapour levels below the recommended exposure standard.
<b>Exposure Standards</b>	ETHANOL (64-17-5) ES-TWA: 1000 ppm (1880 mg/m <sup>3</sup> ) WES-TWA: 1000 ppm (1880 mg/m <sup>3</sup> )
<b>PPE</b>	Wear splash-proof goggles and rubber or PVC gloves. If spraying, wear a Type A-Class P1 (Organic vapour and Particulate) Respirator. When using large quantities or where heavy contamination is likely, wear coveralls.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	CLEAR COLOURLESS LIQUID	<b>Solubility (water):</b>	SOLUBLE
<b>Odour:</b>	PLEASANT ODOUR	<b>Specific Gravity:</b>	1.00 - 1.05
<b>pH:</b>	10.5 - 11.5	<b>% Volatiles:</b>	> 60 % (Water)
<b>Vapour Pressure:</b>	18 mm Hg @ 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 (Approximately)	<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 Temperature:</b>	NOT AVAILABLE
<b>Exposure Standard:</b>	25 ppm Manufacturer's recommendation		

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**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	Incompatible with strong oxidising agents (eg. peroxides, nitrates, hypochlorites) and anionic detergents (eg. soaps).
<b>Decomposition Products</b>	May evolve toxic gases (carbon/ nitrogen oxides, ammonia, chlorides, hydrocarbons) when heated to decomposition.

**11. TOXICOLOGICAL INFORMATION**

<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. If diluted, the potential for adverse health effects will be reduced markedly. Those individuals with pre-existing skin, eye or respiratory allergies may be more susceptible to adverse effects.
<b>Eye</b>	Exposure may result in lacrimation, 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 contact may result in irritation, skin rash and sensitisation.
<b>Ingestion</b>	With large doses ingestion may result in nausea, vomiting and gastrointestinal irritation.
<b>Toxicity Data</b>	ETHANOL (64-17-5) LC50 (Inhalation): 2000 ppm/10 hours (rat) LD50 (Ingestion): 3450 mg/kg (mouse)

**12. ECOLOGICAL INFORMATION**

<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 CONSIDERATIONS**

<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.

**14. TRANSPORT INFORMATION**

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

**15. REGULATORY INFORMATION**

<b>Poison Schedule</b>	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).
<b>AICS</b>	All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

**16. OTHER INFORMATION**

**Additional Information** BENZALKONIUM CHLORIDE: Benzalkonium chloride can be a severe eye & skin irritant & corrosive. Contact with concentrated solutions can cause deep injury and ulceration (Wahlberg, 1985). A 0.1% concentration will cause mild discomfort to the eye. Ingestion may cause a burning pain in the mouth, throat and abdomen, salivation, low blood pressure, CNS depression, excitement, confusion and weakness, laboured breathing & cyanosis (blue skin due to lack of oxygen in blood) or circulatory shock. When used in low concentrations there is little local or systemic toxicity.

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

ABBREVIATIONS:  
mg/m<sup>3</sup> - Milligrams per cubic metre  
ppm - Parts Per Million

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TWA/ES - Time Weighted Average or Exposure Standard.

CNS - Central Nervous System

NOS - Not Otherwise Specified

pH - relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline.

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

M - moles per litre, a unit of concentration.

IARC - International Agency for Research on Cancer.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**

The recommendation for protective equipment contained within this Chem Alert 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 Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**Report Status**

This document has been compiled by RMT on behalf of 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 RMT by the manufacturer or 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. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has 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, RMT 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.

**Prepared By**

Risk Management Technologies

5 Ventnor Ave, West Perth

Western Australia 6005

Phone: +61 8 9322 1711

Fax: +61 8 9322 1794

Email: info@rmt.com.au

Web: www.rmt.com.au

MSDS Date: 01 April 2006

**End of Report**