



MATERIAL SAFETY DATA SHEET

Product Name **MR MUSCLE ALL PURPOSE CLEANER**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name DIVERSEY AUSTRALIA PTY. LIMITED
Address 29 Chifley St, Smithfield, NSW, AUSTRALIA, 2164
Telephone (02) 9757 0300
Fax (02) 9725 5767
Emergency 1800 033 111 (24 hrs)
Email aucustserv@diversey.com
Web Site <http://www.diversey.com>
Synonym(s) HH14338 MR MUSCLE ALL PURPOSE CLEANER 9X750ML
Use(s) ANTIBACTERIAL • CLEANING AGENT
SDS Date 08 Mar 2010

2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO ASCC CRITERIA

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

| | | | | | |
|----------------------|----------------|---------------------|----------------|---------------------------|----------------|
| UN No. | None Allocated | DG Class | None Allocated | Subsidiary Risk(s) | None Allocated |
| Packing Group | None Allocated | Hazchem Code | None Allocated | EPG | None Allocated |

3. COMPOSITION/ INFORMATION ON INGREDIENTS

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

4. FIRST AID MEASURES

Eye If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor.

Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.

Advice to Doctor Treat symptomatically

5. FIRE FIGHTING MEASURES

| | |
|---------------------------|---|
| Flammability | Non flammable. May evolve toxic gases (carbon/ nitrogen oxides, ammonia, chlorides, hydrocarbons) when heated to decomposition. |
| Fire and Explosion | Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas. |
| Extinguishing | Prevent contamination of drains or waterways. |
| Hazchem Code | None Allocated |

6. ACCIDENTAL RELEASE MEASURES

| | |
|-----------------|---|
| Spillage | If spilt (bulk), use personal protective equipment. Contain spillage, then cover / absorb spill with non-combustible absorbant material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Clean spill site with water. For small spills, dilute with water and flush to sewer. CAUTION: Spill site may be slippery. |
|-----------------|---|

7. STORAGE AND HANDLING

| | |
|-----------------|--|
| Storage | Store in a cool, dry, well ventilated area, removed from oxidising agents, anionic detergents, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. |
| Handling | 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 PROTECTION

| Exposure Stds | Ingredient | Reference | TWA | | STEL | |
|---------------|------------|------------|------|-------|------|-------|
| | | | ppm | mg/m3 | ppm | mg/m3 |
| | Ethanol | ASCC (AUS) | 1000 | 1880 | -- | -- |

| | |
|-----------------------------|---|
| Biological Limits | No biological limit allocated. |
| Engineering Controls | Avoid inhalation. Use in well ventilated areas. Maintain vapour levels below the recommended exposure standard. |
| PPE | Wear splash-proof goggles and rubber or PVC gloves. When using large quantities or where heavy contamination is likely, wear: coveralls. If spraying, wear: a Type A-Class P1 (Organic gases/vapours and Particulate) respirator. |



9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-------------------------|-------------------------|------------------------------|----------------|
| Appearance | CLEAR COLOURLESS LIQUID | Solubility (Water) | SOLUBLE |
| Odour | PLEASANT ODOUR | Specific Gravity | 1.00 - 1.05 |
| pH | 10.5 - 11.5 | % Volatiles | > 60 % (Water) |
| Vapour Pressure | 18 mm Hg @ 20°C | Flammability | NON FLAMMABLE |
| Vapour Density | NOT AVAILABLE | Flash Point | NOT RELEVANT |
| Boiling Point | 100°C (Approximately) | Upper Explosion Limit | NOT RELEVANT |
| Melting Point | < 0°C | Lower Explosion Limit | NOT RELEVANT |
| Evaporation Rate | AS FOR WATER | | |

10. STABILITY AND REACTIVITY

| | |
|----------------------------|--|
| Chemical Stability | Stable under recommended conditions of storage. |
| Conditions to Avoid | Avoid heat, sparks, open flames and other ignition sources. |
| Material to Avoid | Incompatible with oxidising agents (eg. hypochlorites), anionic detergents (eg. soaps), heat and ignition sources. |
| Decomposition | May evolve toxic gases (carbon/ nitrogen oxides, ammonia, chlorides, hydrocarbons) when heated to decomposition. |
| Hazardous Reactions | Polymerization will not occur. |

11. TOXICOLOGICAL INFORMATION

| | |
|------------------------------|---|
| Health Hazard Summary | This product has the potential to cause adverse health effects with over exposure. Use safe work practices to avoid eye or skin contact and inhalation. Upon dilution, the potential for adverse health effects may be reduced. Individuals with pre-existing respiratory impairment (eg asthmatics) or skin sensitivities may be more susceptible to adverse health effects. |
| Eye | Contact may result in irritation, lacrimation, pain and redness. |
| Inhalation | Over exposure to vapours may result in irritation of the nose and throat, coughing, 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 with normal use. |
| Skin | Contact may result in irritation, redness and rash. May cause sensitisation by skin contact. |
| Ingestion | Ingestion of large quantities may result in nausea, vomiting and gastrointestinal irritation. |
| Toxicity Data | ETHANOL (64-17-5) LC50 (Inhalation): 20000 ppm/10 hours (rat) LCLo (Inhalation): 21900 ppm (guinea pig) LD50 (Ingestion): 3450 mg/kg (mouse) LD50 (Intraperitoneal): 3600 ug/kg (rat) LD50 (Intravenous): 1440 mg/kg (rat) LD50 (Subcutaneous): 8285 mg/kg (mouse) LDLo (Ingestion): 1400 mg/kg (human) LDLo (Intraperitoneal): 3000 mg/kg (dog) LDLo (Intravenous): 1600 mg/kg (dog) LDLo (Skin): 20 g/kg (rabbit) LDLo (Subcutaneous): 19440 (infant) TCLo (Inhalation): 20000ppm/7 hours (1-22 days pregnant rat - reproductive) TDLo (Ingestion): 50 mg/kg (human) |

12. ECOLOGICAL INFORMATION

| | |
|--------------------|---|
| Environment | Benzalkonium chloride derivatives/quaternary ammonium compounds are commonly used as disinfectants, indicating toxicity to microorganisms. Benzalkonium chloride is toxic to trout above 2 ppm. |
|--------------------|---|

13. DISPOSAL CONSIDERATIONS

| | |
|-----------------------|---|
| Waste Disposal | 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. |
| Legislation | Dispose of in accordance with relevant local legislation. |

14. TRANSPORT INFORMATION

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

| | | | | | |
|----------------------|----------------|---------------------|----------------|---------------------------|----------------|
| Shipping Name | None Allocated | | | | |
| UN No. | None Allocated | DG Class | None Allocated | Subsidiary Risk(s) | None Allocated |
| Packing Group | None Allocated | Hazchem Code | None Allocated | EPG | None Allocated |

15. REGULATORY INFORMATION

| | |
|------------------------|---|
| 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). |

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:

ADB - Air-Dry Basis.

BEI - Biological Exposure Indice(s)

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

CNS - Central Nervous System.

EINECS - European INventory of Existing Commercial chemical Substances.

IARC - International Agency for Research on Cancer.

M - moles per litre, a unit of concentration.

mg/m³ - Milligrams per cubic metre.

NOS - Not Otherwise Specified.

NTP - National Toxicology Program.

OSHA - Occupational Safety and Health Administration.

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

ppm - Parts Per Million.

RTECS - Registry of Toxic Effects of Chemical Substances.

TWA/ES - Time Weighted Average or Exposure Standard.

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.

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.

Report Status

This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS').

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 SDS, 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 SDS.

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

Product Name **MR MUSCLE ALL PURPOSE CLEANER**

SDS Date: 08 Mar 2010

End of Report

CHEM ALERT