

SAFETY DATA SHEET

Date: 18 December 2007

Version: 2

Revision: 1

1. Identification of the substance/preparation and company/undertaking

Product name	MMC-PRO
Use	Hard surface biocide
Supplier	Brinton Products Ltd. 24 Roseneath Road London SW11 6AH UK
Emergency numbers	Telephone 01865 407333 Telefax 0870 429 2035
E-mail contact	admin@brintonproducts.co.uk

2. Hazards identification

Classification	Xi, R36/38; N, R50
Health hazards	The product is classified as irritating to skin and eyes. Care should be taken not to inhale the product during spraying operations.
Environmental hazards	The product is very toxic to aquatic organisms.
Fire and explosion hazards	The product is water-based, and no fire or explosion hazards are expected.

3. Composition/information on ingredients

Hazardous components	Conc (%)	EC No	CAS No	Classification^a
DDAC ^b	< 10	230-525-2	7173-51-5	Xn, R22; C, R34; N, R50
Alcohols, C9-C11, ethoxylated	< 5	–	68439-46-3	Xn, R22; Xi, R41
Other components				
Water	>75	231-791-2	7732-18-4	–

^a See Section 16 'Other information' for full text of the R-phrases.

^b Full name: Didecyldimethylammonium chloride.

4. First-aid measures

Inhalation	If irritation of the airways occurs, especially during spraying operations, remove from exposure and give fresh air and rest. Obtain medical attention for symptoms of difficulty in breathing.
Skin contact	Remove contaminated clothing, and clean before re-use. Wash affected area with soap and water. If irritation occurs, or contamination is severe, seek medical attention.
Eye contact	In case of contact with eyes, irrigate immediately with plenty of water for 10 to 15 minutes, and seek medical attention.

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Ingestion	If swallowed, wash out mouth thoroughly and give water to drink. Seek medical attention and show this safety data sheet. Do not induce vomiting.
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Medical treatment	Give symptomatic treatment and supportive therapy as indicated.
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5. Fire-fighting measures

Fire and explosive properties	The product is water-based, and therefore not flammable and not expected to have explosive properties.
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Extinguishing media	Water and foam are recommended. All extinguishing media can be used.
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Specific hazards	When burned product may form smoke, and toxic fumes and gases containing oxides of carbon and nitrogen.
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Protective equipment for fire fighters	Fire fighters should wear an approved self-contained breathing apparatus and full protective clothing.
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6. Accidental release measures

Personal precautions	Ensure full personal protection, including respiratory protection, during removal of large spillages (See Section 8).
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Environmental precautions	The product is dangerous for the environment. Prevent leakage into the drainage system by diking with sand or other absorbent material. In the event of large spills contact the emergency services and local authorities.
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Method for cleaning up	Collect spill for disposal by absorbing with sand or other approved absorbent materials and place in suitable container for disposal in accordance with local and national regulations. Wash contaminated surfaces with plenty of water, collecting washings for disposal. Contact authorities, water company, and waste-water treatment plant as appropriate if significant contamination occurs.
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7. Handling and storage

Information for safe handling	Handle product in accordance with good industrial hygiene and safety procedures. Avoid contact with skin and eyes.
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Storage	Keep only in the original container. Store in a cool, dry, well-ventilated place.
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8. Exposure controls/personal protection

Engineering measures	No special measures are recommended, but ensure adequate ventilation.
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Personal protective equipment When handling large quantities of the product, chemical resistant gloves (rubber or neoprene) and safety goggles are recommended. Where more extensive contact may occur, wear suitable protective clothing (eg apron, sleeves, boots). For professional use, wear suitable respiratory protective equipment if exposure to mist or spray is possible. In the workplace, PPE should be assessed on the basis of a risk assessment for the particular use. All PPE should be to European (EN) standards or equivalent. PPE manufacturers should be consulted concerning breakthrough times.

UK WEL (EH40 2005) None

9. Physical and chemical properties

Appearance	Blue liquid
Odour	Bland
pH	Neutral
Freezing point	ca. 0 °C
Boiling range	ca. 100 °C
Specific gravity	0.995
Solubility: in water	Soluble

10. Stability and reactivity

Stable under recommended storage and handling conditions.

Conditions to avoid	Avoid strong heat.
Materials to avoid	Water-reactive substances.
Hazardous decomposition products	None known.

11. Toxicological information

The preparation has not been tested for toxicological effects, but it is classified as a skin and eye irritant on the basis of the known hazards of the components.

Acute toxicity Two components are classified as harmful if swallowed, but small amounts (eg a teaspoonful) are not expected to present a danger.

Corrosivity/irritation Repeated or prolonged skin contact may cause irritation progressing to a burn. Ocular irritation and damage may occur. May cause irritation of the linings of the mouth, throat and gastro-intestinal tract. One component is classified as corrosive.

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Sensitisation	No component has been identified as having sensitising effects.
Repeated-dose toxicity	No component has been identified as having been classified for repeated-dose effects.
Mutagenicity/carcinogenicity/toxicity for reproduction	No data available

12. Ecological information

Ecotoxicological data have not been determined specifically for this product.

Mobility	The product is water-based and may be mobile in the aquatic environment. The quaternary ammonium component has surfactant properties, and may bind strongly to sediment.
Persistence/degradability	The product is water based. The quaternary ammonium ingredient is readily biodegradable according to EU guidelines. No information is available on other ingredients.
Bioaccumulation	The quaternary ammonium ingredient has been shown not to bioaccumulate. No information is available on other ingredients.
Toxicity	The quaternary ammonium component is very toxic to aquatic organisms. After testing in fish, Daphnia, and algae, the most sensitive species was algae, E_bC_{50} 0.026 mg/l. No information is available on other ingredients.

13. Disposal considerations

Disposal must be in accordance with current national and local regulations. Incineration is the preferred method of disposal. Do not empty to drains. Chemical residues may count as special waste. The disposal of the special waste is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities or approved waste disposal companies who will advise you on how to dispose of special waste. General EU requirements are given in the Waste Framework Directive (75/442/EEC) and the Hazardous Waste Directive (91/689/EEC).

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14. Transport information

UN No. : 3082
Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S
Marine Pollutant : No
Class : 9
Label(s) : 9
Classification Code : M6
Packing Group : III
Packing Instruction : P001
HIN : 90

15. Regulatory information

Classification and labelling according to EC Directives

Symbol: Xi, irritant
N, dangerous for the environment
R-phrases: R36/38, irritating to eyes and skin
R50, very toxic to aquatic organisms.
S-phrases: S2, keep out of the reach of children
S26, in case of contact with eyes, rinse immediately with plenty
of water and seek medical advice

EU legislation:

Dangerous Substances Directive (67/548/EEC)
Dangerous Preparations Directive (99/45/EC)
REACH Regulation (1907/2006)
Chemical Agents Directive (98/24/EC)

UK legislation

Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (CHIP3).
Control of Substances Hazardous to Health Regulations 1999 SI 1999/437.
Health and Safety at Work Act 1974 c 37.
Personal Protective Equipment (EC Directive) Regulations SI 1992/3139.
Environmental Protection Act 1990 c 43.
The Environment Act 1995 c 25.
Special Waste Regulations 1996 SI 1996/972.
Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labelling)
Regulations.

Guidance

The Compilation of Safety Data Sheets (Third Edition) (CHIP 3 Approved Code of Practice).
Approved Classification and Labelling Guide (Fifth Edition).

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Approved Supply List. Information approved for the classification and labelling of substances and preparations dangerous for supply.

COSHH Essentials: Easy steps to chemical control.

Occupational Exposure Limits EH40.

16. Other information

Revisions

This revision takes into account changes to the 99/45/EC regarding the threshold limits for ingredients that are very toxic to aquatic organisms, resulting in a classification of the product as N, R50.

Risk phrase explanations

R22, harmful if swallowed; R34, causes burns; R36, irritating to eyes; R38, irritating to skin; R41, risk of serious damage to eyes; R50, very toxic to aquatic organisms.

Sources of information

This safety data sheet is compiled based on the information supplied in ingredient SDSs, and classification criteria given in Annex 1 of 67/548/EEC, Annex VI of 67/548/EEC, and 99/45/EEC.