

SAFETY DATA SHEET

Date: 21 May 2003

Version: 1

Revision: 2

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

2. Composition/information on ingredients

Hazardous components	Conc (%)	EC No	CAS No	Classification
Didecyldimethyl-ammonium chloride	< 10	230-525-2	7173-51-5	R22; C, R34; N, R50
Propan-2-ol	< 5	200-661-7	67-63-0	F, R11; Xi, R36; R67
Alcohols, C9-C11, ethoxylated	< 5	-	68439-46-3	Xn, R22; Xi, R41

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

3. Hazards identification

Classification Xi, R36/38

Health hazards The substance is classified as irritating to skin and eyes. Care should be taken not to inhale the product during spraying applications.

Environmental hazards The preparation is not classified as 'dangerous for the environment.'

Fire and explosion hazards The product is water-based, and no fire or explosion hazards are expected.

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. In case of contact with skin 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.
Medical treatment	Give symptomatic treatment and supportive therapy as indicated.

5. Fire-fighting measures

Fire and explosive properties	The product is not flammable and is not expected to have explosive properties.
Extinguishing media	All extinguishing media can be used.
Specific hazards	When burned product may form smoke and toxic fumes, such as oxides of carbon and nitrogen.
Protective equipment for fire fighters	Fire fighters should wear an approved self-contained breathing apparatus and full protective clothing.

6. Accidental release measures

Personal precautions	Ensure full personal protection, including respiratory protection, during removal of large spillages.
Environmental precautions	Prevent leakage of large quantities 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.
Method for cleaning up	Wear appropriate protective clothing (See Section 8). Ventilate area and try to contain spill by diking with sand or other absorbent material. Collect spill for disposal by scooping up liquids (if a large spill) and 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 detergent. Contact authorities, water company, and waste-water treatment plant as appropriate if significant contamination occurs.

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. Avoid inhaling the product during spraying operations.
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.

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). Wear suitable respiratory protective equipment if exposure to levels above occupational exposure limit is likely. PPE manufacturers should be consulted.

UK occupational exposure limits (EH40) propan-2-ol Long term TWA 400 ppm (999 mg/m³)
Short term STEL 500 ppm (1250 mg/m³)

9. Physical and chemical properties

Appearance Blue liquid
Odour Bland
pH Neutral
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 None known
Hazardous decomposition products Smoke, and oxides of carbon and nitrogen may be formed on combustion.

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. No further data available.

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 data is available for the product, but the components are not classified for sensitising effects.
Repeated-dose toxicity	No data is available for the product, but the components are not classified for repeated-dose effects.
Mutagenicity	No data is available for the product, but the components are not classified for mutagenic effects.
Carcinogenicity	No data is available for the product, but the components are not classified for carcinogenic effects.
Reproductive toxicity	No data is available for the product, but the components are not classified for reproductive effects.

12. Ecological information

Ecotoxicological data have not been determined specifically for this product.

Mobility	The product is water-based and expected to be mobile in the aquatic environment. However, components may also distribute to the air and terrestrial compartments.
Persistence/degradability	The product is water based. The quaternary ammonium ingredient is readily biodegradable according to EU guidelines. Propan-2-ol is also expected to be readily biodegradable. No information is available on other minor ingredients.
Bioaccumulation	The quaternary ammonium ingredient has been shown not to bioaccumulate. Propan-2-ol is also expected not to bioaccumulate. No information is available on other minor ingredients.
Toxicity	No information currently available on the product. One component is a quaternary ammonium surfactant and has been shown to be very toxic to aquatic organisms, although it is biodegradable and has a low bioaccumulation potential.

13. Disposal considerations

Disposal must be in accordance with current national and local regulations. Chemical residues generally count as special waste. The disposal of the latter 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.

Containers of this material may be hazardous when emptied due to chemical residues. All hazard precautions given in this data sheet must be observed for empty containers.

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14. Transport information

Not classified as dangerous for transport.

15. Regulatory information

Classification and labelling according to EC Directives

Symbol: Xi, irritant

R-phrases: R36/38, irritating to eyes and skin

S-phrases:

S23 Do not breathe spray

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S51 Use only in well-ventilated areas

Relevant legislation:

Chemicals (Hazard Information for Packaging for Supply) Regulations 2002.

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).

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

Risk phrase explanations: R11, highly flammable; 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; R67, vapours may cause drowsiness and dizziness.

Safety phrase explanations: S23, do not breathe spray; S26, in case of contact with eyes, rinse immediately with plenty of water and seek medical advice; S51, use only in well-ventilated areas.