

SAFETY DATA SHEET


Revision: 15 November 2012

Version number: 1


SECTION 1: Identification of the substance/mixture and company/undertaking

- 1.1 Product identifier** MMC-PRO
- 1.2 Relevant identified uses of the substance or mixture and uses advised against** Hard surface biocide
Uses advised against: not available.
- 1.3 Details of the supplier of the safety data sheet** Brinton Products Ltd.
24 Roseneath Road
London SW11 6AH
Tel 01865 407333; Fax 0870 429 2035
admin@brintonproducts.co.uk
- 1.4 Emergency telephone number** 01865 407333

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture** Xi, R36-38; N, R50 (according to 99/45/EC)
For the classification according to 1272/2008, see Section 16
- 2.2 Label elements**
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Irritant



Dangerous for the environment
- Risk phrases** R36, irritating to eyes
R38, irritating to skin
R50, very toxic to aquatic organisms
- Safety phrases** S26, in case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S37, wear suitable gloves
S61, avoid release to the environment. Refer to special instructions/safety data sheet
- Special labelling** None.
- 2.3 Other hazards** Not available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures^a

Declarable components	Conc. (wt%)	EC No.	CAS No.	Reg. No.	Classification ^b	
					67/548/EEC	1272/2008
Didecyldimeth-	5–10	230-	7173-	NA	Xn (harmful), R22; C	Acute Tox 4, H302; Skin

SAFETY DATA SHEET

Revision: 15 November 2012

Version number: 1

ylammonium chloride (DDAC)		525-2	51-5		(corrosive), R34; N (dangerous for the environment), R50	Corr 1B, H314; Eye Dam 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410
Propan-2-ol	1–5	200-661-7	67-63-0	NA	F (highly flammable), R11; Xi (irritant), R36; R67	Flam Liq 2, H225; Eye Irrit 2, H319; STOT SE 3, H336
Isotridecanol, ethoxylated	Ca. 1	500-241-6	69011-36-5	NA	Xn (harmful), R22; Xi (irritant), R41	Acute Tox 4, H302; Eye Dam 1, H318
<i>Other components</i>						
Water	>75					

^a See Section 16 'Other information' for the full text of the R- and H-phrases, if applicable.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation	If inhalation is suspected, remove exposed person to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms, drowsiness, or dizziness call a doctor.
Skin	Wash affected area with soap and water. Immediately call a doctor if irritation or other symptoms occur. Wash contaminated clothing before re-use.
Eye	In case of contact with eyes, irrigate with room-temperature water for several minutes, occasionally lifting eyelids. Remove any contact lenses if easy to do. Continue rinsing. Get immediate medical attention.
Ingestion	If swallowed, rinse mouth thoroughly and give water to drink. Get medical attention. Do not induce vomiting, unless instructed by medical personnel.

4.2 Most important symptoms and effects, both acute and delayed Irritating to skin and eyes.

4.3 Indication of any immediate medical attention and special treatment needed Treat symptoms as they occur.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable	Water spray, carbon dioxide, dry chemical powder and alcohol-resistant foam are recommended.
Unsuitable	Not available

SAFETY DATA SHEET

Revision: 15 November 2012

Version number: 1

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| 5.2 Special hazards arising from the substance or mixture | The product is an aqueous solution, and is not flammable. However, if heated or involved in a fire product may produce flammable or toxic vapours and gases. |
| 5.3 Advice for firefighters | Remove product from fire or cool with water spray. Firefighters should wear self-contained breathing apparatus and full protective clothing.

Prevent water from firefighting from entering water-courses or drainage system. |

SECTION 6: Accidental release measures

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| 6.1 Personal precautions, protective equipment and emergency procedures | For large spills, wear personal protection. Keep unauthorised personnel from the spillage area. Ventilate area and extinguish all sources of ignition. Take precautionary measures against static discharge and use non-sparking equipment. May cause slip hazard. Follow prescribed procedures for responding to spills and reporting to authorities. |
| 6.2 Environmental precautions | Prevent product from entering water courses or drainage system by using bunding or absorption with inert material. |
| 6.3 Methods and material for containment and cleaning up | Stop the source of leak or release. Clean up spill as soon as possible.

For small quantities, wipe off with cloth or paper, and wash affected area with water and detergent.

For large quantities, recover by using appropriate techniques such as pumping, or absorption with an inert material such as dry sand. Wash contaminated surfaces with water and detergent.

Collect spill, contaminated materials, and washings in a container for disposal. |
| 6.4 Reference to other sections | For recommended personal protective equipment, see Section 8.
For disposal considerations, see Section 13. |

SECTION 7: Handling and storage

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| 7.1 Precautions for safe handling | Avoid contact with skin and eyes. Wear protective clothing as in Section 8. Good general ventilation is recommended. Wash hands after handling. Keep away from sources of ignition. Use only non-sparking equipment. Take precautionary measures against static discharge, and electrically ground container and receiving equipment. |
| 7.2 Conditions for safe storage, including any incompatibilities | Keep containers in a cool, dry place. |
| 7.3 Specific end use(s) | Not available. |

SECTION 8: Exposure controls/personal protection

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| 8.1 Control parameters |
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SAFETY DATA SHEET

Revision: 15 November 2012

Version number: 1

EU limit values	None.
UK limit values	Propan-2-ol: WEL: 8 h TWA, 999 mg/m ³ (400 ppm); 15 min, 1250 mg/m ³ (500 ppm).
Monitoring procedure	BS EN 14042:2003; Workplace Atmospheres; Guide for the Application and Use of Procedures for the Assessment of Exposure to Chemical and Biological Agents, or specific national equivalent.
Other: human health (DNELs, DMELs)	Propan-2-ol: DNELs: worker, long-term exposure, systemic effects, dermal, 888 mg/kg/day; worker, long-term exposure, systemic effects, inhalation, 500 mg/m ³ ; general population, long-term exposure, systemic effects, dermal, 319 mg/kg/day; general population, long-term exposure, systemic effects, inhalation, 89 mg/m ³ ; general population, long-term exposure, systemic effects, oral, 26 mg/kg/day.
Other: environmental (PNEC)	Propan-2-ol: PNECs: freshwater, 140.9 mg/L; intermittent release, 140.9 mg/L; sewage treatment plant, 2251 mg/L; freshwater sediment, 552 mg/kg dry sediment; soil, 28 mg/kg dry soil.

8.2 Exposure controls

Engineering controls	Good general ventilation is recommended for the workplace.
Personal protective equipment	<p>For professional use, the need for personal protective equipment should be based on a workplace risk assessment for the particular use.</p> <p>Avoid skin and eye contact by wearing chemical resistant gloves (eg rubber, neoprene) and safety goggles. Where more extensive contact may occur, wear protective clothing (eg overalls, boots). Wear respiratory protective equipment if exposure to spray is possible. PPE should be to European (EN) standards.</p>
Environmental exposure controls	Not available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Clear, colourless liquid
Odour	Bland
Odour threshold	Not available
pH	Neutral
Melting/freezing point	Not available (0 °C for water)
Initial boiling point/range	Not available (100 °C for water)
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable
Flamm. or expl. limits	Not available

SAFETY DATA SHEET

Revision: 15 November 2012

Version number: 1

Vapour pressure	Not available (2310 Pa at 20 °C for water)
Vapour density	Not available
Relative density	0.995
Solubilities	Soluble in water
Partition coeff. (K_{ow})	Not available
Auto-ignition temp.	Not available
Decomposition temp.	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available
9.2 Other information	Not available

SECTION 10: Stability and reactivity

10.1 Reactivity	Not available.
10.2 Chemical stability	Stable under recommended storage conditions. No hazardous polymerisation.
10.3 Possibility of hazardous reactions	Not available.
10.4 Conditions to avoid	When heated, may produce flammable vapour. Avoid storage at high temperatures, or in direct sunlight.
10.5 Incompatible materials	Water-reactive substances, acids, and strong oxidizing agents.
10.6 Hazardous decomposition products	Not available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity	The product is not expected to meet the criteria for classification by the oral, dermal or inhalation routes.
Skin corrosion/irritation	Repeated or prolonged skin contact may cause irritation progressing to a burn. May cause irritation of the linings of the mouth, throat and gastro-intestinal tract. One ingredient is classified as corrosive.
Serious eye damage/irritation	Ocular irritation and damage may occur.
Respiratory or skin sensitisation	Based on available information, no ingredient has been classified for this effect.
Germ cell mutagenicity	Based on available information, no ingredient has been classified for this effect.

SAFETY DATA SHEET

Revision: 15 November 2012

Version number: 1

Carcinogenicity	Based on available information, no ingredient has been classified for this effect.
Reproductive toxicity	Based on available information, no ingredient has been classified for this effect.
STOT-single exposure	Based on available information, no ingredient has been classified for this effect.
STOT-repeated exposure	Based on available information, no ingredient has been classified for this effect.
Aspiration hazard	The product is not expected to meet the criteria for classification.

SECTION 12: Ecological information

12.1 Toxicity	The product is expected to be very toxic to aquatic organisms. DDAC is very toxic to aquatic organisms. After short-term testing in fish, Daphnia, and algae, the most sensitive species was algae E_bC_{50} (96 h), 0.026; Daphnia (21 d reproduction test) NOEC, 0.010 mg/L.
12.2 Persistence and degradability	DDAC is readily biodegradable.
12.3 Bioaccumulative potential	DDAC has been shown not to bioaccumulate (bioconcentration factor 81, 46 d, bluegill sunfish).
12.4 Mobility in soil	Not available.
12.5 Results of PBT and vPvB assessment	Not available.
12.6 Other adverse effects	Not available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	The product may be suitable for landfill, dilution and disposal via the drains, or incineration. Disposal must be in accordance with current national and local regulations. For professional use, chemical residues generally count as special waste, and their disposal may be regulated in the EC member countries through corresponding laws and regulations. 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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SECTION 14: Transport information

14.1 UN Number	3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N O S (contains didecyldimethylammonium chloride)
14.3 Transport hazard class(es)	9

SAFETY DATA SHEET

Revision: 15 November 2012

Version number: 1

14.4 Packing group	III
14.5 Environmental hazards	Marine pollutant/environmentally hazardous
14.6 Special precautions for user	Not available.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	<p>UK: Control of Substances Hazardous to Health Regulations 2002 (COSHH).</p> <p>Workplace Exposure Limits EH40/2005, with 2007 supplement, Health and Safety Executive.</p> <p>The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.</p>
15.2 Chemical safety assessment	Not available.

SECTION 16: Other information

Revisions	This SDS is the first version in EU format.
Abbreviations	DNEL, derived no-effect level; DMEL, derived minimum effect level; EC, effect concentration; NOEC, No-observed-effect-concentration; STOT RE, specific organ toxicity repeated exposure; STOT SE, specific target organ toxicity single exposure.
References	<p>Annex VI of Regulation 1272/2008 on <i>Harmonised Classification and Labelling for Certain Hazardous Substances</i>.</p> <p>Information on Registered Substances; Chemical Substance Search; European Chemicals Agency (ECHA), available at the ECHA website: http://echa.europa.eu.</p> <p>Classification and Labelling Inventory; European Chemicals Agency (ECHA); http://echa.europa.eu/.</p> <p>Supplier safety data sheets.</p>
Basis of classification	The mixture is self-classified on the basis of available information on the ingredients.
List of R-phrases	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.
Classification according to 1272/2008	Skin Corr 1B, H314; Eye Dam 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 2, H411.
List of hazard statements	H302: Harmful if swallowed; H314: Causes severe skin burns and eye damage; H318: Causes serious eye damage; H400: Very toxic to aquatic life; H410: Very toxic to aquatic life with long lasting effects;

SAFETY DATA SHEET

Revision: 15 November 2012

Version number: 1

H411: Toxic to aquatic life with long lasting effects.