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N.Z.

Phone: 136 136  
4760

24HR EMERGENCY: 1800 097 146 (Australia only).

3M NEW ZEALAND LTD  
250 Archers Road  
Glenfield Auckland

Phone: (9) 444

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MATERIAL SAFETY DATA SHEET

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This MSDS has been prepared by 3M Australia Pty Ltd Toxicology  
Dept.

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1 PRODUCT AND COMPANY IDENTIFICATION  
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PRODUCT NAME  
3M RAPID MULTI-ENZYME CLEANER - 70500

DIVISION  
INTERNATIONAL OPERATIONS

3M Product ID  
4, AH-1000-1340-0, AH-1000-1337-6, AH-1000-1336-8, AH-1000-1338-  
8, AH-1000-1341-8, AH-1000-1342-6, AH-1000-1344-0, AH-1000-1355-  
5, AH-1000-1391-3, AH-1000-1717-9, AH-1000-1718-7, AH-1000-1719-  
7, AH-1000-1720-3, AH-1000-1721-1, AH-1000-1722-9, AH-1000-1723-  
8, AH-1000-1724-5, AH-1000-1725-2, AH-1000-1726-0, AH-1000-1727-  
AH-1000-1728-6, AH-1000-1729-4

RECOMMENDED USE: For cleaning medical/surgical instruments.  
Product concentrate to be diluted prior to use for cleaning  
medical,  
surgical and dental instruments via manual or automated  
cleaning  
systems. This product is not intended to be sprayed.  
For industrial or professional use only.

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2 HAZARDS IDENTIFICATION  
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NOTE: HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

POISONS SCHEDULE Not applicable.

Symbols  
Xi (Irritant)

Risk Codes and Phrases  
R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.

Safety Codes and Phrases  
S28A After contact with skin, wash immediately with plenty of soap and water.  
S37 Wear suitable gloves.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S51 Use only in well ventilated areas.

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3 COMPOSITION  
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Ingredient Name	CAS number	Percentage
WATER	7732-18-5	45
- 55		
POLYETHYLENE OXIDE DERIVATIVE OF	37311-00-5	10
- 20		
SYNTHETIC ALCOHOLS		
DIPROPYLENE GLYCOL METHYL ETHER	34590-94-8	5
- 15		
DODECYL BENZENE SULPHONIC ACID	68584-22-5	5
- 15		
PROPYLENE GLYCOL	57-55-6	1
- 10		

- 10	ETHYLENE GLYCOL	107-21-1	1
- 5	GLYCEROL	56-81-5	1
- 5	SODIUM TETRABORATE	1330-43-4	1
- 1	LAURYL PYRROLIDONE	2687-96-9	0.1
- 1	SODIUM HYDROXIDE	1310-73-2	0.1
- 1	PROTEASE PROTEIN ENZYME	9014-01-1	0.1
< 0.1	PRESERVATIVE	26172-55-4	
< 0.1	ALPHA AMYLASE PROTEIN ENZYME	9000-90-2	

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 4 FIRST AID MEASURES  
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EYE CONTACT

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

SKIN CONTACT

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and shoes before reuse.

INHALATION

Remove person to fresh air. If signs/symptoms develop, get medical attention.

IF SWALLOWED

Do not induce vomiting. Get immediate medical attention. Give person two glasses of water. Never give anything by mouth to an unconscious person.

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 5 FIRE FIGHTING MEASURES  
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SUITABLE EXTINGUISHING MEDIA

No unusual fire or explosion hazards are anticipated. Material will not burn.

EXPOSURE HAZARDS DURING FIRE

No unusual fire or explosion hazards are anticipated. Material will

not burn.

#### FIRE FIGHTING PROCEDURES

Wear full protective equipment (Turnout Gear) and a self-contained breathing apparatus (SCBA).

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#### Combustion Products from Fire

Combustion Products from Fire are listed in Section 10,  
STABILITY AND  
REACTIVITY.

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#### 6 ACCIDENTAL RELEASE MEASURES (SPILL)

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##### Personal Precautions

Observe precautions from other sections.

##### Spill Response

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Ventilate area with fresh air. Contain spill. Collect as much of the spilled material as possible. Clean up residue with detergent and water. Collect the resulting residue containing solution. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

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#### 7 HANDLING AND STORAGE

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##### Precautions for Safe Handling

Contents may be under pressure, open carefully. For industrial or professional use only.

Conditions for Safe Storage

Store in a cool place. Recommended storage temperature 15 - 25 C.

Keep container dry. Keep container in well ventilated area.

Incompatibility - Materials to Avoid

Store out of direct sunlight.

Recommended Ventilation

Keep container in well ventilated area.

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8 EXPOSURE CONTROLS/PERSONAL PROTECTION  
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DIPROPYLENE GLYCOL METHYL ETHER (34590-94-8)

NATIONAL EXPOSURE STANDARDS: TWA 50ppm 308mg/m3

Overall exposure for this substance will be influenced by skin

exposure, including mucous membranes and eyes, either by airborne or more particularly by direct contact with the substance. The presence of other solvents may alter skin absorption.

ETHYLENE GLYCOL (107-21-1)

NATIONAL EXPOSURE STANDARDS: TWA: 20 ppm, 52 mg/m3.

STEL: 40 ppm,  
104 mg/m3.

GLYCEROL (56-81-5)

NATIONAL EXPOSURE STANDARDS: TWA 10mg/m3 (as mist)

SODIUM HYDROXIDE (1310-73-2)

NATIONAL EXPOSURE STANDARDS: TWA 2mg/m3 STEL Peak

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Limitation

Special Information, Exposure/Protection

The extent to which the following recommendations for exposure control and protection are observed should depend on the risk assessment undertaken for the specific conditions under which this product is used, including occupational hygiene measurements.

Recommended Ventilation

Ventilation should comply with AS1668.2 Use with appropriate local exhaust ventilation. Provide appropriate local exhaust ventilation on



citrus odour

pH

6.5 - 6.9

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Boiling point	99 C
Melting point	Not applicable
Flash point	Not applicable
Autoignition temperature	No data available.
Vapour pressure	27 psi @ 55C
Water Solubility	Complete
Specific gravity	1.03 - 1.05
Vapour density	Not applicable
Volatile organic compounds (VOC) content	No data available.
Evaporation rate	No data available.
Viscosity	No data available.
Flammable Limits - LEL	No data available.
Flammable Limits - UEL	No data available.
Percent Volatile	No data available.

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#### 10 STABILITY AND REACTIVITY

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##### Stability

Stable. Hazardous polymerisation will not occur.

##### Conditions to Avoid

Store out of direct sunlight.

##### Materials to Avoid

None known.

##### Hazardous Decomposition Products

Hydrocarbons during combustion.  
Carbon monoxide during combustion.  
Carbon dioxide during combustion.

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11 TOXICOLOGICAL INFORMATION  
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Effects from Eye Contact

Moderate Eye Irritation: Signs/symptoms can include redness, swelling, pain, tearing and blurred or hazy vision.

Effects from Skin Contact

May be absorbed through skin and cause target organ effects.  
Allergic

Skin Reaction (non-photo induced): Signs/symptoms can include redness, swelling, blistering and itching. Moderate Skin Irritation:

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Signs/symptoms may include localised redness, swelling, itching, and dryness.

Effects from Inhalation

May be absorbed following inhalation and cause target organ effects.

Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Effects from Ingestion

May be absorbed following ingestion and cause target organ effects.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhoea and vomiting.

Other Toxicological Information

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, uncoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness. Kidney

Effects:

Signs/symptoms may include reduced or absent urine production,

increased serum creatinine, lower back pain, increased protein in urine, and increased blood urea nitrogen (BUN), blood in urine, painful urination.

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12 ECOLOGICAL INFORMATION  
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Ecotoxicity Data

There is insufficient component information to calculate the ecotoxicity of this product. There is insufficient component information to calculate the wastewater treatment system effects of this product. The components labeled "No information" have no environmental fate and effects data available. The components labelled "Inorganic" do not biodegrade, but may be removed by other mechanisms. The components labeled "Bioconcentration-factor (BCF) not determined" have little or no information on their potential to bioconcentrate or accumulate in aquatic organisms.

Persistence/Biodegradability

The components labeled 'readily biodegradable' are expected to fully degrade in wastewater treatment and in most aerobic water or soil environments. The components labeled 'Partially biodegradable' are not readily biodegradable but are partially degraded in ready biodegradation tests.

Bioaccumulation Potential

Tests have shown that the components labelled "Don't bioconcentrate" did NOT bioconcentrate or accumulate in the test organisms. The components labeled "Log Kow <3" have measured or calculated log Kow values <3 indicating they are unlikely to bioconcentrate to high concentrations in aquatic organisms by partitioning into lipid tissues.

Ecofate Data

Not determined.

Additional Ecological Information

Handling this product according to recommendations is important to

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minimise release to the environment. It is recommended that  
the environmental information included in this section be used to  
help determine appropriate handling of this product for your uses.

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LABELLED COMPONENTS: No information: PROTEASE (9014-01-1),  
DODECYL BENZENE SULPHONIC ACID (68584-22-5), POLYETHYLENE OXIDE  
DERIVATIVE OF SYNTHETIC ALCOHOLS (37311-00-5 ), ENZYME AMYLASE (9000-90-2).  
Lauryl Pyrrolidone (2687-96-9), Preservatives (26172-55-4)  
partially biodegradable: Dipropylene Glycol Methyl Ether (34590-94-8)  
readily biodegradable: Ethylene glycol (107-21-1), Glycerol (56-81-  
5), Propylene glycol (57-55-6) inorganic: Sodium Tetraborate  
(1330-43-4), Sodium hydroxide (1310-7 3-2) Log Kow <3: Dipropylene  
Glycol Methyl Ether (34590-94-8), Glycerol (56-81-5), Propylene glycol (57-  
55-6), Sodium hydroxide (1310-73-2) Don't bioconcentrate: Ethylene  
glycol (107-21-1) Insufficient BCF information: Sodium Tetraborate  
(1330-43-4 )

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13 DISPOSAL CONSIDERATIONS  
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Product as Sold  
Incinerate in an industrial or commercial facility in the  
presence of a combustibile material. As a disposal alternative, dispose of  
waste product in a facility permitted to accept chemical waste.  
Combustion products will include HCl. Facility must be capable of  
handling halogenated materials.

Special Instructions for Disposal  
Small quantities (less than 20L) may be discharged to a  
wastewater treatment system. Disposal alternative: Incinerate large  
quantities in an industrial or commercial incinerator. Contact your  
local waste authority to determine suitable disposal methods.

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14 TRANSPORT INFORMATION  
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ADG (Road/Rail)  
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UN NUMBER	NONE ALLOCATED
PROPER SHIPPING NAME	NONE ALLOCATED
DANGEROUS GOODS CLASS	NONE ALLOCATED
SUBSIDIARY RISK	NONE ALLOCATED
PACKING GROUP	NONE ALLOCATED

IATA (Airfreight)  
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UN NUMBER	NONE ALLOCATED
PROPER SHIPPING NAME	NONE ALLOCATED
DANGEROUS GOODS CLASS	NONE ALLOCATED

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SUBSIDIARY RISK NONE ALLOCATED  
PACKING GROUP NONE ALLOCATED

IMO (Seafreight)  
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UN NUMBER	NONE ALLOCATED
PROPER SHIPPING NAME	NONE ALLOCATED
DANGEROUS GOODS CLASS	NONE ALLOCATED
SUBSIDIARY RISK	NONE ALLOCATED
PACKING GROUP	NONE ALLOCATED

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15 REGULATORY INFORMATION

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Product Certifications  
TGA  
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16 OTHER INFORMATION  
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REASON FOR REISSUE

Composition change; change in concentration range or %.

The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet, which involves using the product, or otherwise that in accordance with instructions of use on product packaging is the responsibility of the user. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the Snr Regulatory Services Officer on (02)9498-9287.