Material Safety Data Sheet

Infosafe No™. SEPG1 Issue Date: July 2013 ISSUED by SEPTONE CS: 1.7.2

Product Name: **RAPID MACHINE PLUS**

Classified as hazardous

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product Name	RAPID MACHINE PLUS
Product Code	818201, 818202
Product Use	Dishwashing liquid for automatic dishwashing machines.
Company Name	ITW AAMTech (Septone) (ABN 63 004 235 063)
Address	44 Aquarium Avenue HEMMANT QLD 4174
Emergency Tel.	Business hours only: 1800 000 945 or New Zealand Poisons Information Centre 0800 764 766
Telephone Number/Fax	Tel: (07) 3390 5044 Fax: (07) 3390 5041
Email	general@septone.com.au (For NZ customers other than in emergencies. Your supplier can be contacted)
Other Information	The information herein is, to the best of our knowledge, correct and complete. It describes the safety requirements for this product and should not be construed as guaranteeing specific properties. Since methods and conditions of application are beyond our control, Septone does not accept liability for any damages resulting from the use of, or reliance on, this information, in inappropriate contexts.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Liquid

Ingredients

Name	CAS	Proportion	Hazard	R Phrase
Water	7732-18-5	60-100 %		
Potassium hydroxide	1310-58-3	10-30 %	Xn, C	R22, R34, R35, R36/38
Sodium hypochlorite	7681-52-9	0-10 %	C, N	R31, R34, R36/38, R50
Ingredients determined not to be hazardous	-	0-10 %		R48

3. HAZARDS IDENTIFICATION

	Causes severe burns. Very toxic to aquatic organisms.
Sensitization of Product	None of the components of this product is considered to be a respiratory or skin sensitiser.
Teratogenicity	None of the components of this product is considered to be a teratogen.
Reproductive Toxicity	None of the components of this product is considered to be toxic to the unborn foetus.
Mutagenicity	None of the components of this product is considered to be a mutagen.

Carcinogenicity	None of the components of this product is considered to be a carcinogen.
Chronic Effects	No known chronic effects.
Inhalation	Not normally an inhalation hazard due to the form in which the product is supplied and the method in which it is handled, dispensed and used. However, vapours or mists are very corrosive to the nose and respiratory tract.
Ingestion	Very corrosive to the mouth and digestive tract. May cause severe internal damage.
Skin	Very corrosive to skin tissue. May cause severe chemical burns which are extremely painful. May cause permanent tissue damage.
Eye	Very corrosive and may cause severe and permanent damage to the eyes.

4. FIRST AID MEASURES

Inhalation	Rescuers should wear respiratory protection if the TLV is exceeded. Remove the victim from the source of exposure. If the victim is not breathing, apply artificial resuscitation. For all but the most minor symptoms, seek medical attention.
Ingestion	Do NOT induce vomiting. Give water to drink. Seek immediate medical attention.
Skin	Remove contaminated clothing and launder before re-use. Wash affected skin thoroughly with soap and water. If swelling, blistering, redness or irritation occurs, seek medical attention.
Eye	Hold the eyes open and flush with water for at least 15 minutes. Seek immediate medical attention.
First Aid Facilities	A safety shower and an eye irrigation facility should be provided. This Material Safety Data Sheet should be provided to the attending medical doctor.
Advice to Doctor	Treat symptomatically, as for a strongly alkaline material.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Use the extinguisher appropriate to the principal fire hazard or the source or of the fire.
Specific Hazards	This product may liberate Hydrogen gas on contact with reactive metals, thus creating a fire and explosion hazard. Potential sources of ignition should be excluded from the immediate area.
Protective Equipment	If this product is involved in a fire, firefighters should full protective equipment including self contained breathing apparatus.
Flash Point	This product will not flash and does not support combustion.
Flammability	This product is not flammable under the conditions of use and does not support combustion. However, this product may liberate Hydrogen gas on contact with aluminium, zinc, and some other reactive metals, thus creating a fire and explosion hazard. Potential sources of ignition should be excluded from the immediate area.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal	Personnel involved in cleaning up any spills are to wear suitable protective clothing, including PVC gloves and eye/face protection. Cordon off the spillage area. Isolate the source of the spillage or leak. Contain the spillage using a suitable non-flammable absorbent material such as sand or diatomaceous earth, and then transfer to sealed plastic containers for disposal. Dispose of large amounts in a chemical dump according to local authority statutory requirements. For small amounts, wash the product to the drain with a large excess of water.

7. HANDLING AND STORAGE

Store in dangerous goods approved plastic containers away from foodstuffs, oxidising agents and acids. Must be stored in accordance with AS3780.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	Name	mg/m3 (STEL)	ppm (STEL)	mg/m3 (TWA)	ppm (TWA)	TWA Footnote
	Water	-	-	-	-	
	Potassium hydroxide			2		Peak Limitation

Other Exposure Information	This product contains 180 g/L Potassium Hydroxide.
Personal Protective Equipment	Wear PVC gloves, chemical goggles and/or a face shield, an acid resistant apron and enclosed footwear. Wear an acid resistant respirator to AS 1716 if spray mists are produced during use. It is recommended that a shirt with long sleeves and long trousers be worn. Always wash skin and clothing after using this product.
Eng. Controls	Ensure that the ventilation is adequate to maintain air concentrations below the exposure standards.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear almost colourless mobile liquid, slight bleach odour.
Boiling Point	100°C
Solubility in Water	Complete
Specific Gravity (H2O=1)	1.170 @ 25°C
pH Value	13.4
Evaporation Rate	As for Water
Volatile Component	77.7% w/w
Flash Point	This product will not flash and does not support combustion.
Flammability	This product is not flammable under the conditions of use and does not support combustion. However, this product may liberate Hydrogen gas on contact with aluminium, zinc, and some other reactive metals, thus creating a fire and explosion hazard. Potential sources of ignition should be excluded from the immediate area.

10. STABILITY AND REACTIVITY

Stability	Considered stable. Sodium hypochlorite will break down if exposed to heat or UV light.
Hazardous Polymerization	Will not occur.
Materials to Avoid	Strong acids, strong oxidising agents, strong reducing agents.
Hazardous Decomposition Products	During combustion, this product may produce carbon monoxide as well as other unidentifiable organic compounds.
Conditions to Avoid	None known.

11. TOXICOLOGICAL INFORMATION

Inhalation	Not normally an inhalation hazard due to the form in which the product is supplied and the method in which it is handled, dispensed and used. However, vapours or mists are very corrosive to the nose and respiratory tract.
Ingestion	Very corrosive to the mouth and digestive tract. May cause severe internal damage.
Skin	Very corrosive to skin tissue. May cause severe chemical burns which are extremely painful. May cause permanent tissue damage.
Eye	Very corrosive and may cause severe and permanent damage to the eyes.
Chronic Effects	No known chronic effects.
Reproductive Toxicity	None of the components of this product is considered to be toxic to the unborn foetus.
Mutagenicity	None of the components of this product is considered to be a mutagen.
Carcinogenicity	None of the components of this product is considered to be a carcinogen.

12. ECOLOGICAL INFORMATION

Short Summary of Assessment of Environmental Impact	At normal use levels and following standard trade waste post treatment, this product is expected to exhibit low toxicity towards aquatic organisms. However, the undiluted material should be prevented from entering waterways. Sodium hydroxide is not persistent in the environment. Its immediate effect in water is to raise the pH, and it may precipitate many naturally occurring cations in the water. Alkalinity may be neutralised by natural acidity in the environment, mostly by CO2 absorbed into water from the atmosphere. Sodium hypochlorite is not stable in water or in soil in the presence of organic material, and is rapidly decomposed by heat and light. Due to the rapid reactions with other substances, the inherent toxicity of hypochlorite, with EC/LC50 values below 1 mg/L, is of little, if any, relevance for aquatic environments. Sodium hypochlorite does not accumulate in the food chain. This product contains 1.1% w/w P. Detergents containing phosphorus contribute together with other sources of phosphorus to the eutrophication of many fresh waters. Algae are the first step in the food chain and a number of factors are needed to promote their growth. These factors are sunlight for photosynthesis, temperature, certain water conditions (turbulence) and nutrients like carbon, nitrogen and phosphorus. The use of phosphorus in complexing agents is still an environmental concern wherever sewage effluent is released untreated into freshwater recipients.

13. DISPOSAL CONSIDERATIONS

14. TRANSPORT INFORMATION

	This product is classified as UN 1814, Potassium Hydroxide Solution. Dangerous Goods Class 8, Packaging Group II. Transport according to the ACTDG.
U.N. Number	1814
Proper Shipping Name	POTASSIUM HYDROXIDE SOLUTION
DG Class	8
Hazchem Code	2R
Packaging Method	3.8.8RT8
Packing Group	II
EPG Number	8A1
IERG Number	37
IMO Marine	None of the components of this product is considered by IMO to be a Marine Pollutant.

Pollutant

15. REGULATORY INFORMATION

Risk Phrase	R35 Causes severe burns. R50 Very toxic to aquatic organisms.
Safety Phrase	S1/2 Keep locked up and out of reach of children. S2 Keep out of reach of children. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 After contact with skin, wash immediately with plenty of S36/37 Wear suitable protective clothing and gloves. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S36/39 Wear suitable protective clothing and eye/face protection. S37 Wear suitable gloves. S39 Wear eye/face protection. S45 In case of accident or if you feel unwell seek medical advice immediately S50 Do not mix with S61 Avoid release to the environment. Refer to special instructions/safety data sheet.
Poisons Schedule	S6
Hazard Category	Corrosive,Dangerous for the environment
AICS (Australia)	To the manufacturer's best knowledge, all components of this product are listed on AICS.

16. OTHER INFORMATION

Contact Person/Point	Technical Manager (07) 3390 5044
Poisons Schedule	S6
Hazard Category	Corrosive,Dangerous for the environment

...End Of MSDS...