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ABN Number: 56 117 205 375

*Disclaimer:*

*ZEXA provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.*

## Product: PLATINUM MACHINE WASH

**HAZARDOUS** according to Safe Work Australia

**DANGEROUS GOODS** according to the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail

**SIGNAL WORD/S**



**DANGER  
CORROSIVE**

 **Emergency Response No: 1800 039 008**

**RECOMMENDED PPE**



### Health hazards

H302/312

H314

H318

Harmful if swallowed or in contact with skin  
Causes severe skin burns and eye damage.  
Causes serious eye damage

**1 IDENTIFICATION****IDENTIFICATION**

Product Code: ZPW  
 Product Name: PLATINUM MACHINE WASH  
 Other Names: Not applicable  
 Product Use: Automatic machine dishwashing liquid  
 Restrictions on use: Use according to Directions; Use appropriate PPE. Protect skin and eyes, use through dispenser provided

**COMPANY DETAILS**

Company: ZEXA  
 ABN Number: 56 117 205 375  
 Address: 28 Strathmore Road  
 CAVES BEACH NSW 2281  
 Telephone Number: (02) 4970 7708  
 Emergency Telephone Number: CHEMWATCH 1800 039 008

Other Information: This information summarises our best knowledge on the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

**2 HAZARD IDENTIFICATION**

**HAZARDOUS SUBSTANCE** according to criteria of Safe Work Australia  
**DANGEROUS GOODS** as classified by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

**Classification of the substance or mixture:**

Acute Toxicity - Category 4  
 Corrosive to Metals - Category 1  
 Skin Corrosion - Sub-Category 1A  
 Eye Damage - Category 1

**SIGNALWORD/S:**

**DANGER**  
**CORROSIVE**



Corrosion

**Hazard Statements****Physical hazards**

H290 May be corrosive to metals.

**Health hazards**

H302/312 Harmful if swallowed or in contact with skin  
 H314 Causes severe skin burns and eye damage.  
 H318 Causes serious eye damage

**Environmental hazards**

H402 Harmful to aquatic life

**Other Hazards**

Not Listed

**Precautionary statements****General precautionary statements****Prevention precautionary statements**

P260 Do not breathe mist/vapours/spray.  
 P264 Wash hands thoroughly after handling.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response precautionary statements**



P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P363 Wash contaminated clothing before re-use.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P321 Specific treatment (see First Aid Measures on Safety Data Sheet).  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P390 Absorb spillage to prevent material damage.

**Storage precautionary statements**

P405 Store locked up.  
P406 Store in corrosive resistant container with a resistant inner liner.

**Disposal precautionary statements**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Poisons Schedule (SUSMP):** S6 Poison.

**3 COMPOSITION****Ingredients**

Chemical Entity	CAS Number	Proportion	Risk Phrases
POTASSIUM HYDROXIDE	[1310-58-3]	10 - 30%	H290 H314 H318
DISODIUM METASILICATE	[10213-79-3]	1 – 10%	H302/312 H314 H318
Water	[7732-18-5]	> 60%	
Ingredients determined not to be hazardous		Balance	

**4 FIRST AID MEASURES**

**Ingestion:** If swallowed do NOT induce vomiting. Immediately wash out mouth with water. Seek urgent medical attention.  
**Eye:** If in eyes, hold eye lids apart and flush eye continuously with running water. Continue flushing until advised to stop by the Poisons Information centre or a doctor, or for at least 15 minutes. Seek urgent medical attention.  
**Skin:** If skin contact occurs, remove contaminated clothing and flush skin and hair with running water. Do not re-use contaminated clothing until washed. Seek medical attention.  
**Inhaled:** Remove from contaminated area to fresh air. If problem persists seek urgent medical attention  
**First Aid Facilities** Eye wash and safety shower  
**Advice to Doctor** Treat symptomatically, Can cause severe eye damage.

**5 FIRE FIGHTING MEASURES**

**Fire Extinguishing Media:** Use appropriate extinguishing media to suit surrounding area  
**Hazards from Combustion:** Material does not burn  
**Precaution for Fire Fighters:** Wear chemical splash suit and SCBA  
**Corrosive liquid.** Contact with metals may evolve flammable hydrogen gas  
**Hazchem** 2R

**6 ACCIDENTAL RELEASE MEASURES**

**Emergency Procedures** Keep unauthorised people away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing  
**Clean Up** Spills will be slippery so treat promptly. For minor spills mop up and rinse with water. For larger spills absorb material on mineral absorbent material or absorbent pads. Collect and put into plastic bags and dispose of through waste disposal contractor. Rinse area with water.

**7 HANDLING AND STORAGE**

**Handling** Wear appropriate protective clothing to prevent skin and eye contact. Use in well ventilated area. Keep containers closed when not in use. Maintain a high standard of personal hygiene. Wash hands immediately after using product



**Storage** Corrosive product. Store in cool, dry, well ventilated place out of direct sunlight. Store in closed containers. Store away from incompatible materials such as acids, aluminium and zinc. Ensure storage area is secure

### 8 EXPOSURE CONTROL / PERSONAL PROTECTION

**Exposure Standards** None listed for product. However exposure standards for potassium hydroxide [NOHSC: 1008(2004)] are:

Potassium Hydroxide: TWA 2mg/m<sup>3</sup> Peak limitation

**Engineering Controls** Do not inhale vapours. Use in well ventilated area and maintain levels below exposure standards.

**Personal Protective Equipment** Wear chemical goggles or safety glasses and impervious gloves when using product;. Use through the electronic dispensing equipment. Be sure that the equipment is functioning correctly , and use care when servicing the equipment

**Individual protection measures, such as Personal Protective Equipment (PPE):**

The selection of PPE is dependant on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

#### RECOMENDED



CHEMICAL GOGGLES or SAFETY GLASSES  
IMPERVIOUS GLOVES  
FACE SHIELD

Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

If risk of inhalation exists, wear suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716

### 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear red coloured liquid	
<b>Formula</b>	Not applicable.	
<b>Odour</b>	Odourless	
<b>Vapour Pressure</b>	Not applicable.	
<b>Vapour Density</b>	Not determined	
<b>Boiling Point</b>	> 100 °C	
<b>Melting Point</b>	Not applicable. C	
<b>Solubility in Water</b>	Soluble at use dilutions	
<b>Specific Gravity</b>	1.2 (Water = 1)	
<b>Flash Point</b>	Not applicable.	
<b>pH</b>	>13.0 (1% solution)	
<b>Lower Explosion Limit</b>	Not applicable.	
<b>Upper Explosion Limit</b>	Not applicable.	
<b>Ignition Temperature</b>	Not applicable.	
<b>Specific Heat Value</b>	Not applicable.	
<b>Particle Size</b>	Not applicable.	
<b>Volatile Organic Compounds (VOC) Content</b>	Not applicable.	
<b>Evaporation Rate</b>	Not applicable.	
<b>Viscosity</b>	Not applicable.	
<b>Percent Volatile</b>	>60%	
<b>Octanol/Water partition coefficient</b>	Not applicable.	
<b>Saturated Vapour Concentration</b>	Not applicable.	
<b>Additional Characteristics</b>	Not applicable.	
<b>Flame Propagation/Burning Rate of Solid Materials</b>	Not applicable.	
<b>Properties of Materials That May Initiate or Contribute to Fire Intensity</b>	Not applicable.	Not applicable.
<b>Potential for Dust Explosion</b>	Not applicable.	
<b>Reactions that Release Flammable Gases</b>	Contact with reactive metals may evolve highly flammable hydrogen gas	
<b>Fast of Intensely Burning Characteristics</b>	Not applicable.	
<b>Non-flammables That Could Contribute Unusual Hazards to a Fire</b>	Not applicable.	Not applicable.
<b>Release of Invisible Flammable Vapours and Gases</b>	Not applicable.	
<b>Decomposition Temperature</b>	Not determined	
<b>Additional Information</b>		

**10 STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under normal conditions of use and storage.
<b>Hazardous Decomposition Products:</b>	May emit heat when mixed with acids.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Incompatibilities:</b>	Incompatible with acids, oxidising agents (i.e. peroxides), active metals and heat.
<b>Conditions to Avoid:</b>	Incompatible with acids, oxidising agents (i.e. peroxides), active metals aluminium, tin and zinc

**11 TOXICOLOGICAL INFORMATION**

<b>Ingestion</b>	Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and bleeding. Can cause chemical burns to the mouth, oesophagus and gastrointestinal tract
<b>Eye</b>	Corrosive to eyes. Will cause severe irritation and chemical burns. Contamination of eyes can result in permanent injury or blindness
<b>Skin</b>	Contact with skin will result in severe irritation. Corrosive to skin – may cause skin burns
<b>Inhalation</b>	Mist generated may cause severe irritation to the mucous membranes and upper respiratory tract
<b>Toxicological Data</b>	Non available for PLATINUM MACHINE WASH.

**12 ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	No data available.
<b>Persistence and Degradability</b>	Does not cause biological oxygen deficit. Methods for determination of biodegradability can not be applied to inorganic substances.
<b>Mobility</b>	Fully soluble in water.
<b>Environmental Fate (Exposure)</b>	Do NOT let product reach waterways, drains and sewers.
<b>Bioaccumulative Potential</b>	No information available on bioaccumulation for this product.

**13 DISPOSAL CONSIDERATIONS**

<b>Disposal</b>	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.
<b>Special Precautions for Land Fill or Incineration</b>	Contact a specialist disposal company or the local waste regulator for advice. This should be done in accordance with 'The Hazardous Waste Act'.

**14 TRANSPORT INFORMATION****Road and Rail Transport**

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

<b>UN No:</b>	1719
<b>Transport Hazard Class:</b>	8 Corrosive
<b>Packing Group:</b>	III
<b>Proper Shipping Name:</b>	CAUSTIC ALKALI LIQUID N.O.S. (Contains Potassium hydroxide)
<b>Hazchem or Emergency Action Code:</b>	2R

**Marine Transport**

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

<b>UN No:</b>	1719
<b>Transport Hazard Class:</b>	8 Corrosive
<b>Packing Group:</b>	III
<b>Proper Shipping Name or Technical Name:</b>	CAUSTIC ALKALI LIQUID N.O.S. (Contains Potassium hydroxide)



<b>IMDG EMS Fire:</b>	F-A
<b>IMDG EMS Spill:</b>	S-B

**Air Transport**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

<b>UN No:</b>	1719
<b>Transport Hazard Class:</b>	8 Corrosive
<b>Packing Group:</b>	III
<b>Proper Shipping Name or Technical Name:</b>	CAUSTIC ALKALI LIQUID N.O.S. (Contains Potassium hydroxide)



## 15 REGULATORY INFORMATION

**Poisons Schedule** S6  
**EPG** 8A1  
**AICS Name** Potassium hydroxide in water Mixture

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

**Classification:**

This material is hazardous according to Safe Work Australia; HAZARDOUS SUBSTANCE.

And a Dangerous Good according to ADG Code

**Classification of the substance or mixture:**

Corrosive to Metals - Category 1  
 Acute Toxicity - Category 4  
 Corrosive to Metals - Category 1  
 Skin Corrosion - Sub-Category 1A  
 Eye Damage - Category 1

**Hazard Statement(s):**

H290 May be corrosive to metals.  
 H314 Causes severe skin burns and eye damage.  
 H318 Causes serious eye damage

## 16 OTHER INFORMATION

**Literature References** No data available.  
**Sources for Data** No data available.

**Legend to Abbreviations and Acronyms**

< less than  
 > greater than  
**AICS** Australian Inventory of Chemical Substances  
**CAS** Chemical Abstracts Service (Registry Number)  
**cm<sup>2</sup>** square centimetres  
**CO<sub>2</sub>** Carbon Dioxide  
**COD** Chemical Oxygen Demand  
**deg C (°C)** degrees Celsius  
**ERMA** Environmental Risk Management Authority  
**G** gram  
**g/cm<sup>3</sup>** grams per cubic centimetre  
**g/l** grams per litre  
**LD50** LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals  
**Ltr** Litre  
**m<sup>3</sup>** cubic metre  
**mbar** millibar  
**mg** milligram  
**mg/24H** milligrams per 24 hours  
**mg/kg** milligrams per kilogram  
**mg/m<sup>3</sup>** milligrams per cubic metre  
**Misc** miscible  
**Miscible** liquids form one homogeneous liquid phase regardless of the amount of either component present  
**mm** millimetre  
**mPa.s** milli Pascal per second

**HSNO** Hazardous Substance and New Organism  
**IDLH** Immediately Dangerous to Life and Health  
**Immiscible** liquids are insoluble in each other  
**Kg** kilogram  
**kg/m<sup>3</sup>** kilograms per cubic metre  
**LC50** LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.  
**N/A** Not Applicable  
**NOHSC** National Occupational Health and Safety Commission  
**OECD** Organization for Economic Co-operation and Development  
**PEL** Permissible Exposure Limit  
**ppb** parts per billion  
**ppm** parts per million  
**ppm/2h** parts per million per 2 hours  
**ppm/6h** parts per million per 6 hours  
**RCP** Reciprocal Calculation Procedure  
**STEL** Short Term Exposure Limit  
**TLV** Threshold Limit Value  
**tne** tonne  
**TWA** Time Weighted Average  
**ug/24H** micrograms per 24 hours  
**UN** United Nations (number)  
**Wt** weight

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 New SDS

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