Platinum Machine Wash
SAFETY DATA SHEET

Section 1. IDENTIFICATION

Product name: Zexa Platinum Machine Wash

Description/Use: Autofeed Dishwashing Liquid **Product Code/s:** 2-321-15000 (15L)
2-321-05000 (5L)

Restrictions on use: Use according to directions. Use appropriate PPE. Use through dispenser.
Business Name: Zexa Clean
ABN: 69 002 351 840
Address: 28 Strathmore Road, Caves Beach NSW 2281
Phone: +61 2 4970 7777 **Fax:** + 61 2 9475 4880
Email: sales@zexa.com.au **Website:** www.zexa.com.au

Issue Date: March 2022 **Review Date:** March 2027

Use only according to directions on product spec sheet and label.
Poisons Information Centre: Australia 13 11 26 NZ: 0800 764 766

Section 2. HAZARDS IDENTIFICATION

Statement of Hazardous Nature
This material is classified as hazardous according to the health criteria of Safe Work Australia (SWA). Classified as Dangerous Goods according to the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

SUSMP Classification: S6
GHS Signal word/s: DANGER, CORROSIVE

Corrosive to metals:	Category 1
Skin Corrosion /Irritation:	Category 1A
Eye Damage:	Category 1
Acute Toxicity:	Category 4

HAZARD STATEMENTS:
H290: May be corrosive to metals.
H302/312: Harmful if swallowed or in contact with skin.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H402: Harmful to aquatic life.

PRECAUTIONARY STATEMENTS:
Do not breathe mists or vapour. Wash hands thoroughly after handling. Wear protective gloves, protective clothing and eye/face protection.

PREVENTION:
P102: Keep out of reach of children.
P103: Read label before use.
P234: Keep only in original container.
P260: Do not breathe fumes, mists, vapours or spray.
P262: Do not get in eyes, on skin, or on clothing.
P264: Wash hands and face thoroughly after handling.
P280: Wear protective gloves, protective clothing and eye or face protection.
RESPONSE:
P101: If medical advice is needed, have product container or label at hand.
P363: Wash contaminated clothing before reuse.
P301+P310+P330+P331: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321: Specific treatment (see FIRST AID MEASURES on SDS)
P332+P313: If skin irritation occurs: Get medical advice.
P337+P313: If eye irritation persists: Get medical advice.
P390: Absorb spillage to prevent material damage.
P391: Collect spillage.
P370+P378: Not combustible. Use extinguishing media suited to burning materials. Water fog or fine spray is the preferred medium for large fires.
STORAGE:
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up
P406: Store in corrosive resistant container with a resistant inner liner.
DISPOSAL:
P501: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. If they cannot be recycled, dispose of contents to an approved waste disposal plant and containers to landfill (see Section 13 of this SDS).

Section 3. COMPOSITION INFORMATION

Ingredients	CAS No	Conc %	TWA (mg/m³)	STEL	Risk Phrase/s
Potassium Hydroxide	1310-58-3	10-30	NA	NA	H290, H314, H318
Disodium Metasilicate	10213-79-3	1-10	NA	NA	H302/312, H314, H318
Water	7732-18-5	>60	Not set	Not set	Not applicable
Non-hazardous ingredients	Not applicable	to 100	Not set	Not set	Not applicable

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should

not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4. FIRST AID

Inhalation: Move victim to fresh air. If symptoms develop, seek medical advice.

Swallowed: Flush mouth with water. DO NOT induce vomiting. Get immediate medical attention. For advice, call the POISONS INFORMATION CENTRE PH: 13 11 26 (Australia Only)

Eye Contact: Immediately rinse with plenty of water for at least 15 minutes, holding eyelids open. Seek immediate medical attention. Remove contact lenses if present and easy to do. Continue rinsing. For advice, call the POISONS INFORMATION CENTRE PH: 13 11 26 (Australia Only)

Skin Contact: Wash skin with plenty of water. Remove contaminated clothing and wash before reuse. Seek medical attention.

Symptoms caused by exposure: Irritating and burning sensation after contact.

Medical attention and special treatment: No Specific treatment. Treat symptomatically.

Section 5. FIRE FIGHTING MEASURES

This product is not flammable under the conditions of storage and use and does not support combustion.

Extinguishing Media: Use the extinguisher appropriate to the principal fire hazard or to the source of the fire.

Hazchem: 2R.

Hazardous Combustion Products: If this product is involved in a fire, the water contained in it may evaporate, leaving a residue which may combust. During combustion, the residue may produce carbon monoxide as well as other unidentifiable organic compounds.

Precautions for Fire Fighters: Wear chemical splash suit and SCBA

Protective Equipment: Fire fighters are to wear protective equipment appropriate to the principal fire hazard or the source of the fire.

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.

Corrosive liquid: Contact with metals may evolve flammable hydrogen gas.

Section 6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal

Note: spillages are slippery. Wear appropriate protective equipment. Cordon off the spillage area. Keep unauthorised people away. Do not touch or walk through spilled material. Isolate the source of the spillage or leak. For minor spills mop up and rinse with water. For larger spills, absorb material in mineral absorbent material or absorbent pads. Collect into plastic bags and dispose of through waste disposal contractor. Rinse area with water.

Section 7. HANDLING AND STORAGE

Wear appropriate protective clothing to prevent skin or eye contact. Store in plastic containers in a clean, dry, cool, well-ventilated place away from foodstuffs and out of reach of children. Keep containers sealed when not in use. It is recommended that this product be dispensed through approved dispensers.

Store away from incompatible materials (acids, aluminium, zinc).

This material is classified as a Class 8 Corrosive as per the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and/or the "New Zealand NZS5433: Transport of Dangerous Goods on Land" and must be stored in accordance with the relevant regulations.

This material is a Poison Schedule 6 (Danger) and must be stored, maintained and used in accordance with the relevant regulations.

Section 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

National Exposure

No value assigned by NOHSC for any ingredients used in this product. However, exposure standards for Potassium hydroxide [NOHSC: 1008(2004)] are:

Potassium hydroxide: TWA 2mg/m^3 peak limitation

Individual Protection Measures
Not required under normal conditions of use, however always wash hands before smoking, eating, drinking or using the toilet.

The following Australian Standards provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZ 1715; Protective gloves: AS2161; Occupational Protective Clothing: AS/NZS 4501 2008; Industrial Eye Protection: AS 1336 and AS/NZS 1337; Occupational Protective Footwear: AS/NZS 2210.

No special equipment is usually needed when handling small quantities. The following are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Eye and face protection: safety glasses or chemical resistant goggles or a face shield should be worn to prevent eye contact. It is also recommended to provide eyebath or eyewash facilities in an area close to where the product is being used.

Skin protection: Information at hand indicates that this product is not harmful and normally no special skin protection is necessary. However, we suggest that you routinely avoid skin contact with all chemical products and that you wear suitable impervious gloves (preferably elbow-length) when skin contact is likely.

Respiratory protection: Not normally needed. If risk of inhalation exists, or if significant vapours or mists are generated, use an appropriate respirator in accordance with AS/NZS 1715.

Engineering Controls

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

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Coloured Liquid	**Colour:**	Red
Flashpoint (ºC):	Not applicable	**Boiling Point (ºC):**	>100°C
Flammability Limits (%):	Not flammable	**Vapour Pressure:**	Not applicable
Water Solubility:	Complete	**Specific Gravity:**	1.2 (water=1)
Odour:	None	**pH:**	>13 (1% solution)
Percent volatile:	>60	**Reactions:**	Contact with reactive materials may evolve highly flammable hydrogen gas

Section 10. STABILITY AND REACTIVITY

Reactivity:	Hazardous polymerization will not occur.
Stability:	Considered stable. For extended storage life, store below 30°C and keep out of direct sunlight.
Hazardous Polymerisation:	Will not occur.
Hazardous Decomposition:	May emit heat when mixed with acids
Materials to Avoid:	Strong oxidising agents. Acids. Active metals and heat.
Conditions to Avoid:	Incompatible with strong oxidising agents (peroxides), acids, active metals (aluminium, tin, zinc).

Section 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.

Information on Route of Exposure Acute Toxicity:

Ingestion:	Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and bleeding. Can cause chemical burns to the mouth, oesophagus and gastro-intestinal tract.
Eye Contact:	Corrosive to eyes. Will cause sever irritation and chemical burns. Contamination of eyes can result in permanent injury or blindness.
Skin Contact:	Will result in severe irritation. Corrosive to skin – may cause skin burns.
Inhalation:	Mist generated may cause severe irritation to the mucous membranes and upper respiratory tract.

Skin Corrosion/Irritation:	Not classified
Serious Eye Damage/Irritation:	Not classified
Respiratory or Skin Sensitisation:	Not classified
Germ Cell Mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive Toxicity:	Not classified
Specific Target Organ Toxicity (STOT) – Single Exposure:	Not classified
Specific Target Organ Toxicity (STOT) – Repeated Exposure:	Not classified
Aspiration Hazard:	Not classified
Immediate, Delayed or Chronic Health Effects From Exposure:	None known

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity:	No product data available.
Persistence and Degradability:	Does not cause biological oxygen deficit. Methods for determination of biodegradability cannot be applied to inorganic substances.
Bioaccumulative Potential:	Low bioaccumulation potential.
Mobility in Soil:	Fully soluble in water. Low sorption to soil/sediment, moderate migration to ground water. (Estimated Log KOC value (EpiSuite 4.1 KOCWIN) <1)
Environmental Exposure:	DO NOT let neat product reach waterways, drains and sewers.

Section 13. DISPOSAL CONSIDERATIONS

Disposal methods: Refer to Waste Management Authority. Dispose of contents/container in accordance with Local/regional/national/international regulations.

Special precautions for landfill or incineration: Contact a specialist disposal company or local waste regulator for advice. This should be done in accordance with "The Hazardous Waste Act"

Section 14. TRANSPORT INFORMATION

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code for transport by Road and Rail; DANGEROUS GOODS.

UN Number: 1719
ADG Classification: Class 8: Corrosive Liquid
Proper Shipping Name: CAUSTIC ALKALI LIQUID N.O.S. (contains Potassium hydroxide
Packing group: III
Hazchem Code: 2R

Special Provisions: 274 - NONE OF THIS HIGHLIGHTED SECTION IS ON THE CHESSER SDS, THE CHESSER SDS HAS MARINE & AIR INSTRUCTIONS BUT I THINK WE CAN LEAVE THOSE OFF
Emergency Response Guide No: 37
Packing Instruction: P001, IBC02
Note 1: Concentrated strong alkalis are incompatible with concentrated strong acids.
Note 2: Concentrated strong acids are incompatible with concentrated strong alkalis.
Note 3: Acids are incompatible with Dangerous Goods of Class 6 which are cyanides. Exemptions may apply.

Section 15. REGULATORY INFORMATION

Poisons Schedule: **S6**
EPG: **8A1**
AICS Name: Potassium hydroxide in water mixture
All ingredients are listed in the Australia Inventory of Chemical Substances (AICS). This document has been produced in accordance with the requirements of GHS of classification and labelling.

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information

of this product and, in particular, how to safely handle and use this product in the workplace. Since the supplier cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this supplier.

Section 16. OTHER INFORMATION

Abbreviations and acronyms:

ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail.

AICS: Australian Inventory of Chemical Substances.

CAS Number: Chemical Abstracts Service Registry Number.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

HAZCHEM: An emergency action code of numbers and letters which gives information to emergency services.

HSIS: Hazardous Substances Information System

IARC: International Agency for Research on Cancer.

NOHSC: National Occupational Health and Safety Commission.

NTP: National Toxicology Program (USA).

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit.

SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons.

TWA: Time Weighted Average. UN Number: United Nations Number.

Literature references:

• Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice (Safe Work Australia)
• GHS Hazardous Chemical Information List (Safe Work Australia)
• Guidance on the Classification of Hazardous Chemicals under the WHS Regulations. Safe Work Australia.
• Global Harmonized System of Classification and Labelling of Chemicals
• "Australian Exposure Standards"
• Australian Code For The Transport Of Dangerous Goods By Road And Rail
• Standard for the Uniform Scheduling of Medicines and Poisons
• Material Safety Data Sheets – individual raw materials – Suppliers.
• Approved Criteria for Classifying Hazardous Substances NOHSC:1008(1999)]
• Hazardous Substance Information System – National Worksafe Data Base.
• Hazardous Chemical Information System (HCIS).
• Implementation of the globally harmonised system of classification and labelling of chemicals (GHS).
• ECHA (European Chemicals Agency)

End