1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **Dishwashing Machine Rinse Aid**

Recommended Use: Rinse aid for dishwashing machines

Supplier: Big Bubble
ABN: 51 290 656 636

Street Address: 18 Elliott Street
Midvale
Western Australia

Telephone Number: +61 08 9274 1992

Poisons Information Centre: **131 126 Australia**

2. HAZARDS IDENTIFICATION

Road and Rail; Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Globally Harmonised System

Hazard Classification
Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Hazard Categories Serious eye damage / irritation – Category 2A

Pictogram

Name of pictogram Exclamation Mark

Signal Word Warning

Hazard Statements **H319** Causes serious eye irritation.

Precautionary Statement

General	**P101** If medical advice is needed, have product container or label at hand. **P102** Keep out of reach of children. **P103** Read label before use.
Prevention	**P210** Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. **P233** Keep container tightly closed. **P234** Keep only in original container. **P240** Ground and bond container and receiving equipment. **P241** Use explosion-proof electrical / ventilation / lighting equipment. **P242** Use non-sparking tools. **P243** Take action to prevent static discharge. **P260** Do not breathe mist / vapour / spray. **P264** Wash thoroughly after handling. **P270** Do not eat, drink, or smoke when using this product. **P271** Use only outdoors or in a well-ventilated area. **P280** Wear protective gloves / eye protection / face protection.
Response	**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. **P304 + P340** IF INHALED: Remove victim to fresh air and keep 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. **P310** Immediately call a POISON CENTRE or doctor. **P363** Wash contaminated clothing before reuse. **P337 + P313** If eye irritation persists: Get medical advice / attention. **P370 + P378** In case of fire: Use foam / water spray / fog for extinction.
Storage	**P403 + P235** Store in a well-ventilated place. Keep cool.
Disposal	**P501** Dispose of contents / container in accordance with local regulations.
Poisons Schedule:	Not scheduled

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion
Ethanol	64-17-5	5 – 15%
Phosphoric acid	7664-38-2	<1%
Ingredients determined not to be hazardous		Balance %

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor at once.

Ingestion:	IF SWALLOWED: Rinse mouth, then drink a glass of water. Do NOT induce vomiting. Get medical advice/attention if you feel unwell. Never give anything by mouth to an unconscious person.
Eye Contact:	IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Avoid contaminating unaffected eye. Remove contact lenses if present and easy to do. Continue rinsing for 15 minutes. If eye irritation persists, get medical advice/attention.
Skin Contact:	IF ON SKIN (or hair): Remove and isolate contaminated clothing and shoes. Immediately flush skin with running water (and soap if available) for at least 15 minutes. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing before reuse.
Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention.
Medical attention and special treatment:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

General	If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.
Flammability Conditions	Combustible liquid; May burn but does not readily ignite.
Suitable Extinguishing Media:	Use dry chemical, Carbon dioxide (CO_2), foam or water spray for extinction – do not use water jets.
Fire and Explosion Hazards	Contact with metals may evolve flammable hydrogen gas. Containers may explode when heated.
Hazardous combustion products:	Fire may produce irritating and/or toxic gases, including oxides of Carbon and Phosphorous.
Precautions for fire fighters and special protective equipment:	Contain runoff from fire control or dilution water – Runoff may cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Auto Ignition temperature:	No Data Available
Decomposition Temperature:	No Data Available
Flammability:	No Data Available

Flash Point: No Data Available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Ensure adequate ventilation. ELIMATE all ignition sources. Take precautionary measure against static discharge. Ensure electrical continuity by bonding and earthing all equipment. Do not touch or walk through spilled material – Slippery when spilt. Avoid accidents, clean up immediately. Avoid breathing mist/vapours and contact with eyes, skin, and clothing.
Protective equipment:	Use personal protective equipment as required (see SECTION 8).
Emergency procedures:	Spill or leak area should be isolated immediately. Keep unauthorised personnel away.
Environmental Precautions:	Prevent entry into soils drains, and waterways.
Methods and materials for Containment and clean up:	Stop leak if safe to do so – Prevent entry into waterways, drains, or confined areas. Absorb with earth, sand, or other non-combustible material and transfer to properly labelled containers for disposal (see SECTION 13). Wash area down with excess water.

7. HANDLING AND STORAGE

This material must be stored, maintained and used in accordance with the relevant regulations.

Conditions for safe storage:	Keep in the original or suitable containers. Do not store in copper or copper alloy containers. Store in a cool, dry, well-ventilated place, out of direct sunlight. Keep Container tightly closed when not in use – Check regularly for leaks. Protect from moisture. Keep away from heat and sources of ignition – No smoking. Keep away from incompatible materials (see SECTION 13).
Precautions for safe handling:	Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mist/vapours/aerosols and contact with eyes, skin, and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). Keep away from heat and sources of ignition – No smoking.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure control measures:	From National Occupational Health & Safety Commission Worksafe Australia: Ethanol: 1880 mg/m^3 (1000ppm) TWA (8 hr)
Biological Monitoring	No information available.

Engineering Controls	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible.
Personal Protective Equipment	
Eye and Face	Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses or chemical goggles.
Skin	Handle with gloves. Recommended: Impervious gloves, e.g. rubber or PVC. Wear appropriate personal protective clothing to avoid skin contact. Recommended: Overalls, safety shoes.
Respiratory	Wear respiratory protection in case of inadequate ventilation or if an inhalation risk exists. Recommended: Organic vapour/particulate respirator (refer to AS/NZS 1715 & 1716).

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Blue
Odour:	Alcohol
pH:	2.1 – 2.5
Solubility:	Miscible in water.
Auto Ignition temperature:	No Data Available
Decomposition Temperature:	No Data Available
Evaporation Rate:	No Data Available
Flammability:	No Data Available
Flash Point:	No Data Available
Boiling Point:	No Data Available
Melting/Freezing Point:	No Data Available
Freezing Point	No Data Available
Odour Threshold:	No Data Available
Partition coefficient: n-octanol/water	No Data Available
Relative Density:	No Data Available
Upper Flammibility Limit	No Data Available
Lower Flammability Limit:	No Data Available

Explosive limits:	No Data Available
Vapour density:	No Data Available
Vapour pressure;	No Data Available
Viscosity:	No Data Available
Biopersistence:	No Data Available
Crystallinity:	No Data Available
Dustiness:	No Data Available
Particle size:	No Data Available
Redox potential:	No Data Available
Release of invisible flammable vapours and gases	No Data Available
Saturated Vapour Concentration	No Data Available

10. STABILITY AND REACTIVITY

Chemical stability:	Material is stable under normal conditions.
Conditions to avoid:	Keep away from heat and sources of ignition. Avoid exposure to moisture. Avoid formations of mists/aerosols.
Incompatible materials:	Incompatible/reactive with oxidising and reducing agents, strong acids, strong bases, copper, sulfides, phosphides, cyanides, acetylides, fluorides, silicides, carbides, strong caustic material, alloys, glass, leather, natural rubber, arsenic trioxide.
Hazardous decomposition products:	Fire/decomposition may produce irritating and/or toxic gases, including oxides of Carbon and Phosphorous.
Hazardous reactions or Polymerisation:	Hazardous polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion:	Expected to be a low ingestion hazard; large amounts may cause neusea and vomiting.

Eye contact: Vapours may irritate the eyes. Liquid or mists may severely irritate or damage the eyes.

Skin contact: No adverse health effects due to skin contact are expected. Prolonged skin contact may cause defatting of skin which can lead to dermatitis.

Inhalation: No adverse health effects due to inhalation are expected. Breathing in mists or aerosols may produce respiratory irritation.

Acute Toxicity: Harmful if swallowed.

Ethanol:

LD50 Oral (rat): 7,060 mg/kg
LC50 Inhalation (rat, 6 h): 5,900 mg/m^3

Carcinogenity: Not expected to be carcinogenic.

Mutagenicity: Not expected to be mutagenic.

Reproductive: Not expected to impair fertility.

12. ECOLOGICAL INFORMATION

Ecotoxicity: LC50, Fish: >100 mg/L (96 h)
EC50, Crustacea: >100 mg/L (48 h)

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal methods: 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.
Or refilled at Big Bubble in Midvale.

14. TRANSPORT INFORMATION

Road and Rail Transport
Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Marine Transport
Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

Air Transport
Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

15. REGULATORY INFORMATION

Poisons Schedule: Not scheduled

16. OTHER INFORMATION

Revision date: 30/09/2024
Reason for issue: Update SDS
Key/Legend:
< Less Than
> Greater Than
AICS Australian Inventory of Chemical Substances
atm Atmosphere
CAS Chemical Abstracts Service (Registry Number)
cm2 Square Centimetres
CO2 Carbon Dioxide
COD Chemical Oxygen Demand
deg C (**°C**) Degrees Celcius
g Grams
g/cm3 Grams per Cubic Centimetre
g/l Grams per Litre
HSNO Hazardous Substance and New Organism
IDLH Immediately Dangerous to Life and Health
immiscible Liquids are insoluable in each other.
inHg Inch of Mercury
inH2O Inch of Water
K Kelvin
kg Kilogram
kg/m3 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.
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 or **L** Litre
m3 Cubic Metre
mbar Millibar
mg Milligram
mg/24H Milligrams per 24 Hours
mg/kg Milligrams per Kilogram
mg/m3 Milligrams per Cubic Metre
Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.
mm Millimetre mmH2O Millimetres of Water

mPa.s Millipascals per Second
N/A Not Applicable
NIOSH National Institute for Occupational Safety and Health
NOHSC National Occupational Heath and Safety Commission
OECD Organisation for Economic Co-operation and Development
PEL Permissible Exposure Limit
Pa Pascal
ppb Parts per Billion
ppm Parts per Million
ppm/2h Parts per Million per 2 Hours
ppm/6h Parts per Million per 6 Hours
psi Pounds per Square Inch
R Rankine
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
wt Weight

This material safety data sheet has been prepared by Midland Chemicals

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. No liability is accepted whether direct or indirect from its application since the conditions of final use are outside Midland Chemicals control. The end user is obliged to conform to relevant government regulations and/or patent laws applicable in their respective States of Countries.