SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	**Vinegar 4%**
Other Identifier:	Acetic acid 4% solution
Recommended Use:	Multipurpose cleaner
Supplier: **ABN:**	Big Bubble 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 1 Skin corrosion / irritation – Category 2

Pictogram

Name of pictogram	Corrosion, Warning
Signal Word	Danger
Hazard Statements	**H315** Causes skin irritation. **H318** Causes serious eye damage.

Precautionary Statement

Prevention	**P210** Keep away from flames and hot surfaces. No smoking. **P234** Keep only in the original packaging. **P260** Do not breathe mist/vapours/spray. **P280** Wear protective gloves/protective clothing/eye protection/face protection and suitable respirator.
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 or 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. **P370 + P378** In case of fire: Use carbon dioxide (CO_2), dry chemical or alcohol resistant foam for extinction. **P390** Absorb spillage to prevent material damage.
Storage	**P403 + P235** Store in a well-ventilated place. Keep cool. **P405** Store locked up.
Disposal	**P501** Dispose of contents/container in accordance with local / regional / national / international regulations.
Poisons Schedule:	**Not scheduled**

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion
Acetic acid	64-19-7	1 – 10%
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 plenty of water. Do NOT induce vomiting. For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26) or a doctor. 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. Remove contact lenses if present and easy to do. Continue flushing until advised to stop by a Poisons Information Centre (e.g. phone Australia 13 11 26) or a doctor, or for at least 15 minutes.

Skin Contact:	IF ON SKIN (or hair): Remove and isolate contaminated clothing and shoes. Immediately flush skin and hair with running water for at least 15 minutes. Immediately call a Poison Centre or doctor/physician for advice. Wash contaminated clothing and shoes before reuse.
Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Remove contaminated clothing and loosen remaining clothing. Immediately call a Poison Centre or doctor/physician for advice. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult.
Medical attention and special treatment:	Immediate medical attention is required. Treat symptomatically. Keep victim calm and warm. Effects of exposure to substance may be delayed.

5. FIRE FIGHTING MEASURES

General	Fight fire from a safe distance, with adequate cover. Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out. Dike fire-control water for later disposal; do not scatter material.
Flammability Conditions	Combustible liquid; may burn but does not ignite readily.
Suitable Extinguishing Media:	Use dry chemical, Carbon dioxide (CO_2), foam or water spray for extinction. Do not use a solid water stream as it may scatter and spread fire.
Fire and Explosion Hazards	When heated, vapours may form explosive mixture with air: indoors, outdoors, and sewers explosion hazards. Contact with metals may evolve flammable hydrogen gas. Containers may explode when heated. Fire exposed containers may vent contents through pressure relief valves.
Hazardous combustion products:	Fire may produce irritating, corrosive, and/or toxic gases.
Precautions for fire fighters and special protective equipment:	Contain runoff from fire control or dilution water – Runoff may be corrosive and/or toxic and cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing – It may provide little or no thermal protection. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with substance is possible.

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 – Ventilate enclosed areas before entering. ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not touch or walk through spilled material – Slippery when spilt. Avoid accidents, clean up immediately! Do not breathe vapours and prevent contact with eyes, skin, and clothing.
Protective equipment:	Wear personal protective equipment as required (see SECTION 8).
Emergency procedures:	Spill or leak should be isolated immediately. Evacuate personnel to safe areas. Keep unauthorised personnel away. Keep upwind and to higher ground.
Environmental Precautions:	Decontamination runoff may be washed to drains with large quantities of water. Avoid contamination of waterways. If contamination of sewers or waterways occurs, advise local emergency services.
Methods and materials for Containment and clean up:	Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements, or confined areas. Absorb or cover with earth, sand, or other non-combustible material and transfer to containers for disposal (see SECTION 13). Neutralise residues with lime or soda ash. 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 only in the original container. Store in a cool, dry, and well-ventilated place, out of direct sunlight. Keep container tightly closed – check regularly for leaks. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources – No smoking. Keep away from foodstuffs and incompatible materials (see SECTION 10). Store locked up.
Precautions for safe handling:	Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice. Do not breathe mist/vapours/spray and prevent contact with eyes, skin, and clothing. Do not ingest. Wear protective gloves/protective clothing/eye protection/face protection and suitable respirator (see SECTION 8). Combustible liquid: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources – No smoking. Take precautionary measures against static discharge. Corrosive to metals: Absorb spillage to prevent material damage (see SECTION 6).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure control measures:	Acetic Acid: Safe Work Australia Exposure Standard: TWA = 10 ppm (25 mg/m^3), STEL = 15ppm (37 mg/m^3)
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. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant source, preventing dispersion of it into the general work area.
Personal Protective Equipment	
Eye and Face	Wear appropriate eye protection to prevent eye contact. Recommended: Tightly fitting safety goggles.
Skin	Wear protective gloves. Recommended: Elbow-length impervious gloves. Wear appropriate personal protective clothing to prevent skin contact. Recommended: Wear fire/flame resistant/retardant clothing and antistatic boots.
Respiratory	Wear respiratory protection if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended: Use a full-face respirator with multi-purpose combination or type AXBEK respirator cartridges (refer to AS/NZS 1715 & 1716).

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Colourless
Odour:	Pungent
pH:	2.2 – 2.7
Solubility:	Miscible with 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:	Stable under proper operation and storage conditions.
Conditions to avoid:	Avoid contact with incompatible substances. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources.
Incompatible materials:	Incompatible/reactive with caustic soda, lime, amines, strong alkalis, metals, oxidising agents, metal alkoxides, furfuryl alcohol, acetaldehyde, nitric acid, nitrate, oxyacid salt hydrogen, and inorganic peroxide, sodium, calcium, and other active metals, halogens, metal oxides, non-metal oxides, acyl halide, and metal phosphide.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Fire/decomposition may produce

	irritating, corrosive, and/or toxic gases. Contact with metals may evolve flammable hydrogen gas.
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	May be harmful if swallowed. Corrosive on ingestion. Ingestion may result in severe corrosion of the mouth, perforation of the oesophages, severe corrosion of the gastrointestinal tract, bloody vomiting, diarrhoea, shock, haemolysis, haemogloburinuria, and death.
Eye contact	Contamination of the eyes can result in permenant injury.
Skin contact	Harmful in contact with skin. Causes skin burns. Repeated or prolonged contact of the chemical with the skin may cause dermatitis.
Inhalation	Vapours, mists, or aerosols of the chemical may cause respiratory irritation and can also damage nose, throat, and lungs.
Acute Toxicity	Oral: - LD50, Rat: 3,310 mg/kg [Supplier's SDS] - LD50, Rat: >2,000 mg/kg [NICNAS] Dermal: - LD50, Rabbit: 1,130 mg/kg [Supplier's SDS] - LD50, Rabbit, 1,060 mg/kg [NICNAS]
Carcinogenity	Not expected to be carcinogenic.
Mutagenicity	Not expected to be mutagenic.
Reproductive	Not expected to impair fertility.

12. ECOLOGICAL INFORMATION

Ecotoxicity	- LC50, Fish: 88 mg/L (96 h) [Supplier's SDS] - EC50, Crustecea: 65 mg/L (48 h) Supplier's SDS]
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

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

If swallowed, do NOT induce vomiting.

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor, or for at least 15 minutes.

16. OTHER INFORMATION

Revision date: 04/01/2026
Reason for issue: Update SDS

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.