

# SAFETY DATA SHEET



**Product: Automatic Machine Dishwashing Liquid**

## SECTION 1 – STATEMENT OF CHEMICAL PRODUCT AND COMPANY IDENTIFICATION


<b>Trade Name:</b>	<b>ADVANTAGE AUTOMATIC MACHINE DISHWASHING LIQUID</b>		
<b>SUPPLIER:</b>	Nafda Limited		
<b>ADDRESS:</b>	2/100 George Street Parramatta NSW 2150		
<b>TELEPHONE:</b>	<b>+61 2 8833 9299</b>	<b>FAX:</b>	<b>+61 2 8833 9297</b>
<b>AH EMERGENCY TELEPHONE:</b>	13 1126 in Australia	<b>ABN:</b>	<b>25 002 953 942</b>
<b>Substance:</b>	Liquid	<b>Product Use:</b>	Automatic Dishwashing
<b>Creation Date:</b>	October 2016	<b>Revision Date:</b>	October 2021
<b>Product Code:</b>			

## SECTION 2 – HAZARDS IDENTIFICATION

### Classification of the substance or mixture

- This product is classified as **HAZARDOUS** according to criteria of Safe Work Australia.
- The product is a **DANGEROUS GOOD** according to the Australian Dangerous Goods (ADG) Code.
- The product is classified as **Dangerous** according to GHS.

### GHS - GLOBALLY HARMONISED SYSTEM

<b>GHS Classification</b>	Serious Eye Damage/Irritation - Category 1 Skin Corrosion/Irritation – Category 1A Acute Toxicity – Category 4 Corrosive to Metals – 1 Skin Corrosion – 1A
<b>GHS Pictogram</b>	
<b>GHS Signal Word</b>	<b>DANGER</b>

### Hazard statement(s)

<b>H318</b>	Causes serious eye damage
<b>H314</b>	Causes serious skin burns and eye damage
<b>H312</b>	Harmful if swallowed
<b>H290</b>	May be corrosive to metals

### Precautionary statement(s): General

<b>P101</b>	If medical advice is needed, have product container or label at hand.
<b>P102</b>	Keep out of reach of children.
<b>P103</b>	Read label before use.

### Precautionary statement(s): Prevention

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<b>P280</b>	Wear eye protection / face protection
<b>P260 + P264 + P280</b>	Do not breathe dusts or mists. Wash hands/skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection
<b>P264 + P270</b>	Wash hands/skin thoroughly after handling. Do not eat, drink or smoke when using this product.
<b>P234</b>	Keep only in original container

### Precautionary statement(s): Response

<b>P305 + P351 + P338 + P310</b>	IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses if present and if easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician.
<b>P301 + P330 + P331 + P303 + P361 + P353 + P304 + P340 + P321</b>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before use. IF INHALED: remove victim to fresh air and keep at rest at a position comfortable for breathing. Specific treatment (see First Aid on safety data sheet).
<b>P390</b>	Absorb spillage to prevent material damage

### Precautionary statement(s): Storage

<b>P405</b>	Store locked up.
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### Precautionary statement(s): Disposal

<b>P501</b>	Dispose of contents/container in accordance with local regulations.
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### ADG CODE DANGEROUS GOODS

<b>UN Number</b>	1760	<b>ADG Classification</b>	8
<b>Shipping Name</b>	Sodium Hydroxide Solution CORROSIVE LIQUID N.O.S.	<b>ADG Subsidiary Risk</b>	None allocated
<b>Hazchem Code</b>	2X	<b>Packing Group</b>	II

### POISON SCHEDULES

<b>SUSMP Classification</b>	
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### EMERGENCY OVERVIEW

<b>Colour</b>	colourless	<b>Odour</b>	Faint
<b>Physical Description</b>	Liquid	<b>Viscosity</b>	Similar to water

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<b>Major Health Hazards</b>	None known
<b>Note</b>	
<b>IMPORTANT</b>	<p><b>This SDS and the Hazard Classifications contained therein, only apply to the product in its concentrated form, as supplied.</b></p> <p><b>When diluted to 1:30 or greater they no longer apply.</b></p> <p><b>However, good hygiene and housekeeping practices should be adhered to.</b></p>

## SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Proportion:
Sodium Hydroxide Liquid	1310-73-2	< 15% w/w
Ingredients determined to be non-hazardous (nonionic surfactants, chelators, dye)	various	Balance
<b>NOTE:</b>	Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication "List of Designated Hazardous Substances" or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication "Approved Criteria for Classifying Hazardous Substances", or have been found NOT to meet the criteria of a dangerous substance as defined in the GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) , 4th edition United Nations 2011.	

## SECTION 4 – FIRST AID MEASURES

<b>Scheduled Poisons</b>	Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons. (Phone Australia 131126 or New Zealand 0800 764 766).
<b>First Aid Facilities Required</b>	Ensure there is access to eye washes and safety showers.
<b>Inhalation</b>	Remove victim to fresh air away from exposure. Obtain medical attention if symptoms occur.
<b>Skin contact</b>	Wash skin with plenty of water. Seek medical advice (e.g. doctor) if irritation, burning or redness develops. Seek medical advice (e.g. doctor).
<b>Eye contact</b>	Immediately irrigate with copious quantities of water for at least 20 minutes. Eyelids to be held open. Seek urgent medical advice (e.g. ophthalmologist).
<b>Ingestion</b>	Do NOT induce vomiting. Do NOT attempt to give anything by mouth to an unconscious person. Rinse mouth thoroughly with water immediately. Give water to drink. If vomiting occurs, give further water to achieve effective dilution. Seek urgent medical advice (e.g. doctor).
<b>Advice to Doctor</b>	Treat symptomatically. All treatments should be based on observed signs and symptoms of distress of the patient. Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons.

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## SECTION 5 – FIRE FIGHTING MEASURES

<b>Fire and Explosion Hazards</b>	Non flammable.
<b>Extinguishing Media</b>	Use an extinguishing media suitable for surrounding fires.
<b>Fire Fighting</b>	Keep containers exposed to extreme heat cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion or decomposition.
<b>Flash Point</b>	Non combustible

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>Emergency Procedures</b>	<ul style="list-style-type: none"><li>• Shut off engine and electrical equipment and leave off.</li><li>• Move people from immediate area; keep upwind.</li><li>• Stop leak if safe to do so.</li><li>• Send messenger to notify fire brigade and police.</li><li>• Tell them location, material quantity, emergency contact.</li><li>• Indicate condition of vehicle and damage or injuries observed.</li><li>• Warn other traffic.</li></ul>
<b>Occupational Release</b>	Minor spills do not normally need any special clean-up measures. In the event of a major spill, prevent spillage from entering drains or water courses. Wear appropriate protective equipment as in section 8 below to prevent skin and eye contamination. Spilt material may result in a slip hazard and should be absorbed into dry, inert material (e.g. sand, earth or vermiculite), which then can be put into appropriately labelled drums for disposal by an approved agent according to local conditions. Residual deposits will remain slippery. Wash area down with excess water. If required, neutralize with citric acid or vinegar. If contamination of sewers or waterways has occurred advise the local emergency services. In the event of a large spillage notify the local environment protection authority or emergency services.

## SECTION 7 – HANDLING AND STORAGE

<b>Handling</b>	As with any chemical, avoid excessive personal contact. Wear protective clothing when risk of exposure occurs. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers closed at all times. Avoid physical damage to containers. Always wash hands with water after handling. Work clothes should be laundered. Launder contaminated clothing before re-use.
<b>Storage</b>	Store in a cool, dry, place with good ventilation. Avoid storing in aluminium and light alloy containers. Store away from acids. Keep containers closed at all times – check regularly for leaks

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters

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<b>Occupational Exposure Limits</b>	No exposure standards have been established for the mixture. However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.
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<b>Control parameters</b>	
<b>Biological Limits</b>	No biological limits allocated.

## PERSONAL PROTECTION PPE

<b>Ventilation</b>	Use only in a well-ventilated area. Ensure ventilation is adequate to maintain air concentrations below exposure standards.
<b>Personal Protective Equipment</b>	Use good occupational work practice. The use of protective clothing and equipment depends upon the degree and nature of exposure. Final choice of appropriate protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. The following protective equipment should be available;
<b>Eye Protection</b> 	The use of safety glasses with side shield protection, goggles or face shield is recommended to handle in quantity, cleaning up spills, decanting, etc. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.
<b>Skin Protection</b>   	Wear gloves. Overalls, apron, work boots and elbow length gloves are recommended for handling the concentrated product (as per AS/NZS 2161, or as recommended by supplier) to handle in quantity, cleaning up spills, decanting, etc.
<b>Protective Material Types</b>	Material suitable for mild detergent contact – Butyl rubber, Natural Latex, Neoprene, PVC, and Nitrile.
<b>Respirator</b> 	Not required for normal cleaning operations as per label directions with adequate ventilation. If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

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## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid	<b>Colour</b>	Colourless
<b>Odour</b>	Faint	<b>Specific Gravity</b>	~ 1.5 @ 25 °C
<b>Boiling Point</b>	Approximately 140°C	<b>Freezing Point</b>	Not relevant
<b>Vapour Pressure</b>	Not available	<b>Vapour Density</b>	Not available
<b>Flash Point</b>	Not flammable	<b>Flammable Limits</b>	None
<b>Water Solubility</b>	Miscible in all proportions	<b>pH</b>	~ 12.5 @ 25 °C (1% w/w water)
<b>Volatile Organic Compounds (VOC)</b>	0 % v/v	<b>Coefficient of Water/Oil Distribution</b>	Not available
<b>Viscosity</b>	Not available	<b>Odour Threshold</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Per Cent Volatile</b>	Not available

## SECTION 10 – STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable at normal temperatures and pressure.
<b>Chemical stability</b>	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
<b>Conditions to avoid</b>	Avoid contact with heat or heat sources. Acids.
<b>Incompatible materials</b>	ACIDS: reaction can occur, yielding heat and pressure which can burst an enclosed container. Attacks many reactive metals (aluminium/magnesium/zinc alloys) releasing highly flammable gas (hydrogen) which generates fire or explosion hazards. Reacts slowly with ambient air (particularly carbon dioxide) which may cause certain insoluble salts to form in solutions.
<b>Hazardous decomposition products</b>	Product can decompose on combustion to form Carbon Monoxide, Carbon Dioxide, and other possibly toxic gases and vapours.
<b>Hazardous Reactions</b>	None known.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### POTENTIAL HEALTH EFFECTS

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:

<b>Inhaled</b>	Inhalation over exposure may result in mucous membrane irritation of the respiratory tract and coughing.
<b>Ingestion</b>	Ingestion will in irritation and chemical burns to the gastrointestinal tract.
<b>Skin Contact</b>	Skin contact will result in irritation, redness, pain, rash, dermatitis. Severity depends on the concentration and duration of exposure.
<b>Eye</b>	Corrosion to eyes. Contact can cause corneal burns, possible permanent eye damage and blindness.

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<b>Chronic</b>	No known effects.
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<b>AUTOMATIC MACHINE DISHWASHING LIQUID</b>	<b>TOXICITY</b> LD50 calculated 360 - 370 mg/kg Acute Toxicity Category 4	<b>IRRITATION</b> Severe irritation – skin. Severe irritation – eyes.
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## SECTION 12 – ECOLOGICAL INFORMATION

<b>General</b>	No single ingredient (over 1%) recognised as environmental pollutant. Product miscible in all proportions with water. AS WITH ANY CHEMICAL PRODUCT, DO NOT DISCHARGE INTO DRAINS, WATERWAYS, SEWER OR ENVIRONMENT. Inform local authorities if this occurs.
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<b>Aquatic Toxicity</b>	
<b>AUTOMATIC MACHINE DISHWASHING LIQUID (as sold)</b>	Acute Toxicity to fish (calculated from ingredients): LC50: 208 - 1005 mg/L Acute Aquatic Toxicity NOT HAZARDOUS – Not harmful to aquatic life. LC50 > 100mg/L. Biodegradable.
<b>AUTOMATIC MACHINE DISHWASHING LIQUID (at use dilution)</b>	Acute Aquatic Toxicity (Calculated) LC50: 20833 - 100542 mg/L. Acute Aquatic Toxicity NOT HAZARDOUS – Not harmful to aquatic life. LC50 > 100mg/L.

## SECTION 13 – DISPOSAL CONSIDERATIONS

<b>Product and Packaging Disposal</b>	Dispose of contents/container to chemical landfill. Consult local or regional waste management authority for further details.
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## SECTION 14 – TRANSPORT INFORMATION

<b>Labels Required</b>	
<b>ADG</b>	Class 8
<b>Marine Pollutant</b>	no
<b>HAZCHEM</b>	2x

<b>Land Transport (ADG)</b>	
<b>UN number</b>	1760
<b>Packing group</b>	II
<b>UN proper shipping name</b>	CORROSIVE LIQUIDS N.O.S.
<b>Environmental hazard class(es)</b>	none

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<b>Transport hazard class(es)</b>	8
<b>Special precautions for user</b>	none

Air transport (ICAO-IATA / DGR)	
<b>UN number</b>	1760
<b>Packing group</b>	II
<b>UN proper shipping name</b>	CORROSIVE LIQUIDS N.O.S.
<b>Environmental hazard</b>	None allocated
<b>Transport hazard class(es)</b>	

Sea transport (IMDG-Code / GGVSee)			
<b>UN number</b>	1760		
<b>Packing group</b>	II		
<b>UN proper shipping name</b>	CORROSIVE LIQUIDS N.O.S.		
<b>Environmental hazard class(es)</b>	None allocated		
<b>Transport hazard class(es)</b>			
<b>Special precautions for user</b>	<table border="1" style="width: 100%; height: 40px;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> </table>		

## SECTION 15 – REGULATORY INFORMATION

Labeling Details	
<b>GHS Classification</b>	Serious Eye Damage/Irritation - Category 1 Skin Corrosion/Irritation – Category 1A Acute Toxicity – Category 4 Corrosive to Metals – 1 Skin Corrosion – 1A
<b>SUSMP</b>	Nil
<b>ADG Code</b>	Class 8
<b>AICS</b>	All ingredients present on AICS.

## SECTION 16 – OTHER INFORMATION

<b>Issue Date</b>	3 October 2016
<b>Version Number</b>	V 1.0
<b>Abbreviations and</b>	<b>ADG Code:</b> Australian Code for the Transport of Dangerous Goods by Road and Rail. <b>AICS:</b> Australian Inventory of Chemical Substances.



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<b>acronyms</b>	<p><b>CAS Number:</b> Chemical Abstracts Service Registry Number.</p> <p><b>GHS:</b> Globally Harmonized System of Classification and Labelling of Chemicals</p> <p><b>HAZCHEM:</b> An emergency action code of numbers and letters which gives information to emergency services.</p> <p><b>HSIS:</b> Hazardous Substances Information System</p> <p><b>IARC:</b> International Agency for Research on Cancer.</p> <p><b>NOHSC:</b> National Occupational Health and Safety Commission.</p> <p><b>NTP:</b> National Toxicology Program (USA).</p> <p><b>SDS:</b> Safety Data Sheet</p> <p><b>STEL:</b> Short Term Exposure Limit.</p> <p><b>SUSMP:</b> Standard for the Uniform Scheduling of Medicines and Poisons.</p> <p><b>TWA:</b> Time Weighted Average.</p> <p><b>UN Number:</b> United Nations Number.</p>
<b>Literature references</b>	<p>Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice (December 2011 – Safe Work Australia)</p> <p>GHS Hazardous Chemical Information List (September 2014 – Safe Work Australia)</p> <p>Guidance on the Classification of Hazardous Chemicals under the WHS Regulations. April 2012. Safe Work Australia.</p> <p>Global Harmonized System of Classification and Labelling of Chemicals (GHS). Fifth revised edition.</p> <p>“Australian Exposure Standards”</p> <p>List of Designated Hazardous Substances [NOHSC:10005(1999)]</p> <p>Australian Code For The Transport Of Dangerous Goods By Road And Rail – 7th Edition.</p> <p>Standard for the Uniform Scheduling of Medicines and Poisons 2015.</p> <p>Material Safety Data Sheets – individual raw materials – Suppliers.</p> <p>Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]</p> <p>HSIS – Hazardous Substance Information System – National Worksafe Data Base.</p> <p>LABELLING OF WORKPLACE HAZARDOUS CHEMICALS, Code of Practice, DEC 2011</p> <p>IMPLEMENTATION OF THE GLOBALLY HARMONISED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) APRIL 2012</p>
<b>Risk assessments</b>	<p>This SDS is a tool to communicate hazards which can assist you in creating relevant risk assessments for your workplace. There are many variables in determining whether a particular hazard is a risk in your workplace. Keep in mind this may be influenced by such things as the amount used, frequency of use, engineering controls, effectiveness of safety training and many more considerations.</p>
<b>Disclaimer</b>	<p>This MSDS summarizes 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 MSDS 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.</p>

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<b>Note</b>	Safety Data Sheets are updated frequently. Please ensure that you have a current copy.
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**End of SDS**