

AUTOMATIC RINSE AID

FEATURES & APPLICATIONS

Unico Automatic Rinse Aid is a machine dishwashing rinse aid. It has been formulated to work along with Unico Automatic Dishwash in commercial dishwashing machines, leaving glasses, crockery, pots, pans and cutlery clean, sparkling and streak free. The optimised blend of surfactants gives superior wetting, high-temperature dispersal and drainage. Automatic Rinse Aid is suitable for use in both hard-water and soft water areas, it is perfume free and therefore will not taint surfaces.

APPLICATION DETAILS

Task	Maximum Dilution	How To Use
Automatic rinsing for lightly soiled.	1ml in 10 litres with water.	For metered machines place inlet tube in container then set meter to the lowest level that gives adequate rinsing properties.
For heavy soiled.	1ml in 1 litre with water.	

PRODUCT AND PACKAGING INFORMATION

Appearance & Odour:	Clear, blue liquid with slight odour.
Chemical Description:	An aqueous solution of surfactants, preservative and dye.
Packaging:	2 X 5 litres, 20 litres.
Shelf Life:	2 Years

ENVIRONMENTAL INFORMATION

General Information: This product has been formulated to have very little ecological impact and is an ideal choice for environmentally aware organisations.

Environmental Checklist:

Biodegradable detergents	Yes	CFC free	Yes	Solvent free	Yes
Phosphate free	Yes	Acid/alkali free	Yes	Free of dyes/perfumes	No
Recyclable packaging	Yes	Biodegradable container	No	Biodegradable outer box	Yes

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Commercial Name Intended/Recommended use	Automatic Rinse Aid Machine dishwashing rinse aid.	Supplier Address	Unico Ltd North Main Street, Carronshore, Falkirk FK2 8HT 01324 573400 01324 573401
Issue Date Issue Number	Jan 2021 3	Telephone Fax	

2. HAZARDS IDENTIFICATION

2.1 Classification This product is classified under EC 1272/2008

Physical and Chemical Hazards	Not Classified
Human Health	Eye Irritant . H319 Skin irritant . H315
Environment	Not Classified

Label in Accordance with (EC) No. 1272/2008

2.1 Label Elements



Signal Word
Hazard Statements

Warning

H319 Causes serious eye Irritation
H315 Causes skin irritation
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long-lasting effects

Precautionary Statements

P102 - Keep out of reach of children
P103 – Read label before use.
EUH 210 - Safety data sheet available on request.
P302 +P352 IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301 +P330 +P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P281 Use personal protective equipment as required.
Wear eye protection when handling concentrated product.
Wear rubber/impervious gloves for skin protection when handling concentrated product

3. COMPOSITION OF PRODUCT AND INFORMATION ON INGREDIENTS

3.1 Mixtures

Concentrations below the concentration limit for classification in mixtures means that substance not reaching this does not need to be classified. Those that do not reach this concentration will still be included as indicative advice only.

Alcohol alkoxylates	1 . 10%
CAS-No.: 69227-21-0	EC No.: -
Classification (EC 1272/2008) Eye Irritant 2 . H319	Chronic Aq. 1 . H410 Acute Aq. 1 . H400

Citric acid	1 . 10%
CAS-No.: 77-92-9	EC No.: 201-069-1
Classification (EC 1272/2008) Eye Irritant 2 . H319	

Sodium xylene sulphonate	1 . 10%
CAS-No.: 1300-72-7	EC No.: 215-090-9
Classification (EC 1272/2008) Eye Irritant 2 . H319	

<u>NAME</u>	<u>RANGE</u>	<u>EINECS</u>	<u>CAS No</u>	<u>Conc. Limit for Classification</u>
Block copolymer of ethylene oxide & propylene oxide	1-10%	-	9003-11-6	-
Methylchlorisothiazolinone (5- chloro-2-methyl-4-isothiazolin-3-one)	< 0.1%	247-500-7	26172-55-4	0.1%
Methylisothiazolinone (2-methyl-3(2H)-isothiazolone)	< 0.1%	220-239-6	2682-20-4	0.1%
C.I. 61585	< 0.1%	224-748-4	4474-24-2	0.1%

4. FIRST AID MEASURES

4.1 Description of first aid measures

- Ingestion** Drink a glass of water to dilute product. Do not induce vomiting. Act immediately to prevent further irritation of mouth, throat and stomach mucosa.
- Inhalation** No ill effects expected. If irritation is experienced go in open air and ventilate area. Mouth and throat may be rinsed with water.
- Eye Contact** Check for and remove contact lenses. Rinse thoroughly with plenty of water for several minutes.
- Skin Contact** Rinse affected area with water, if needed apply a cold compress to relieve irritation.

4.2 Most important symptoms and effects, both acute & chronic

Where irritation of tissue occurs, stinging and redden accompanied by some discomfort for a short period after exposure. No Chronic effects known

4.3 Indication of any immediate medical attention and special treatment needed

If irritation to the mouth, throat, stomach, skin, eyes or respiratory system occurs and doesn't subside within a few minutes after the first aid measures have been carried out, seek immediate medical advice and have this SDS or the product label to hand.

A cold compress can be used to alleviate skin irritation.

5. FIRE FIGHTING MEASURES

- 5.1 Suitable extinguishing media** This product is not flammable. Use fire extinguishing media appropriate for surrounding area.
- Unsuitable extinguishing media** Not applicable.
- 5.2 Special hazards arising from the substance or mixture** Fumes may contain poisonous oxides of carbon and nitrogen (CO_x & NO_x) if affected by fire.
- 5.3 Advice for firefighters** Use appropriate extinguishing media for fires in the area. Firefighters should wear self-contained breathing apparatus if heat generated breakdown products are likely to be present

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing and eyeshields. Ventilate the area.

6.2 Environmental Precautions

Avoid spillage into surface water drains, soil / subsoil or vegetation.

6.3 Methods and material for containment and cleaning up

Hose away with plenty of water, diluting well, unless this would contaminate a water source or vegetation. In which case either collect, dilute as earlier and pour down waste drain (foul sewer) or absorb onto dry sand or similar material and dispose of safely as commercial waste.

7. HANDLING AND STORAGE

7.1 Handling Take care when dispensing product from container and assure adequate ventilation. Avoid contact with skin and eyes. Do not mix with any other chemicals.

7.2 Storage Store upright in original containers in a cool dry area out of the reach of children.

7.3 Specific end use(s) Use only as directed by the front page of this document and the product label

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Name	STD	TWA . 8 Hrs	STEL . 15 Min	Comments

Note: No assigned Workplace Exposure Limits for any component above 1%

8.2 Exposure Control

Respiratory Protection Personal protection is not normally required unless a risk assessment indicates the need for it .In which case wear a facemask with a suitable filter capable of dealing with liquid droplets / mist.

Skin Protection Personal protection is not normally required unless a risk assessment indicates the need for it .In which case wear protective clothing and rubber safety shoes/boots.

Eye Protection Personal protection is not normally required unless a risk assessment indicates the need for it. In which case wear eyeshields.

Hand Protection For prolonged contact or sensitive skin the use of rubber gloves is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Blue Liquid	Flash Point (ACC)	-
Odour	Slight	Viscosity (20C)	50 cp approx
pH	2.0 typically	Water Solubility	Soluble
Boiling Point	Approx 100°C	Explosive Properties	None
Oxidising Properties	None	Vapour Pressure	Not Applicable
		Relative Density	1.03

9.2 Other Information

None

10. STABILITY AND REACTIVITY

10.1 Reactivity Not known to react with other chemicals

10.2 Chemical Stability No stability concerns

10.3 Hazardous Reactions Will react with strong oxidising agents

10.4 Conditions to Avoid Extreme heat or cold

10.5 Incompatible Materials Strong oxidising reagents

10.6 Hazardous decomposition products None when handled and stored correctly.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

We have not carried out any animal testing for this product. Any ATE figures quoted below are from Toxicity Classifications that have been carried out using ATE (Acute Toxicity Estimate) Calculation Method using LD50 or ATE figures provided by the Raw Material Manufacturer.

Consideration is only given to components with greater than 1% based on the product formulation and those with a listed exposure limit in Section 8.

Acute Toxicity – Irritant to tissue and eyes

Component	LD-50, Oral, mg/kg	LD-50, Skin mg/kg	LC-50 (Inhalation)	Chronic Consideration
Alcohol Alkoxylates	500-2000 (rat)	--	-	No Evidence
Citric Acid	5400 (rat)	--	--	No Evidence
Sodium Xylenesulphonate	>162000 (rat)	>2000	>6.41 mg/l (rat)	No Evidence

Chronic Toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product
Sensitization No information available.
Mutagenic Effects No information available
Reproductive Effects No information available.
Developmental Effects No information available.
Target Organs None known
Endocrine Disruptor Info. No information available.

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.
 Causes eye, skin & respiratory irritation

12. ECOLOGICAL INFORMATION

Consideration is only given to components with greater than 1% based on the product formulation and those with a listed exposure limit in Section 8

12.1 Toxicity

Ecotoxicity effects

Component	Toxicity to Fish LC-50, mg/l	Exposure Time, Hrs	Comments
Alcohol Alkoxylates	1-10 (Danio Rerio)	96	
Citric Acid	440	--	
Sodium Xylenesulphonate	>1000 (Onocorhynchus mykiss)	96	

12.2 Persistence and Degradability

The material contained in this preparation are biodegradable at a level of at least 80%

12.3 Bioaccumulation Potential

With the current information available, when used for its intended purpose this product will not cause adverse effects in the environment.

12.4 Mobility in soil

No information available

12.5 Aquatic Toxicity

With the current information available, this is judged to be low.

12.6 Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Discharge used working solutions to drain is acceptable in small amounts due to the dilution of running water. Small amounts (less than 1 Litre) of unwanted concentrated product may be flushed with water to sewer with at least 15 minutes of running water.

Larger volumes of the concentrated product must be sent for disposal using a licensed waste disposal contractor.

Rinse out empty container with water and consign to normal waste.

14. TRANSPORT

Not regulated for Transport

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No 453/2010 (which amends Regulation (EC) No 1907/2006). The product is as classified under GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures. Ingredients are listed with classification GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

Guidance

Workplace Exposure Limits EH40.

The National Institute for Occupational Safety and Health (NIOSH) register of Immediately Dangerous to Life or Health Concentrations (IDLH)

16. OTHER INFORMATION

This product does not require any special training before use. Usage and handling instructions are mentioned on packaging and on the first page of this Safety Data Sheet. This health and safety information refers to the concentrated product and has been prepared assuming the intended described use is adhered to. Any unusual or novel use of this product is done without being assessed for the impact nor is it part of the considerations in this document.

Diluted solutions can be considered to be significantly less hazardous although they should always be handled with care.

Key literature references and sources for data

Safety Data Sheet, Misc. manufacturers.

CLP Classification - Table 3.1 List of harmonised classification and labelling of hazardous substances.

CHIP Classification - Table 3.2 The list of harmonised classification and labelling of hazardous substances from Annex I to Directive 67/548/EEC.

ECHA - C&L Inventory database.

Revision comments

This product is now using classification from GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

The Hazard Statements listed below in this Section No 16 relate to the Raw Materials (Ingredients) in the Product (as listed in Section 3) and NOT the product itself. For the Risk Phrases / Hazard Statements relating to this Product see Section 2.

Hazard statements in full

H315 Causes skin irritation.

H319 Causes serious eye irritation

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long-lasting effects