



ECO CLEANING SOLUTIONS

## PRODUCT INFORMATION SHEET

# RINSE AID

### MACHINE RINSE ADDITIVE

#### PRODUCT INFORMATION:

Fast acting water dispersing agent that speeds the drying process of crockery, glassware & cutlery in dish washing systems to leave a clean, spotless, streak free surface

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#### ADVANTAGES:

HASTENS DRYING WITHOUT SPOTTING OR STREAKING:	When added to the rinse water after the washing cycle, this product causes surface water to bead and run off, hastening drying without spotting or streaking.
WATER BASED:	Unlike many solvent based rinse aids which are harmful to the environment.
FAST ACTING:	Works almost instantaneous.
VERSATILE:	Suitable for all automatic mechanical dish wash or glass wash systems.
BIODEGRADABLE:	Readily biodegradable water based cleaner.
SOLUBILITY:	100% soluble in water.

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#### DIRECTIONS FOR USE:

Use in dish/glass washing machines as per manufacturer's guidelines at a rate of 0.02% - 0.05% or 2ml – 5mls per litre of water depending on degree of soiling. Do not mix with other detergents.

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**HEALTH AND SAFETY:** See Safety Data Sheet.

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#### PACKAGING:

All our plastic drums are high molecular weight; high-density polyethylene designed to bring the product to the customer in perfect conditions.  
Size: 5Lt Drum.

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#### QUALITY ASSURANCE:

This product is manufactured in Ireland to ISO 9002 quality standards & conforms to R.E.A.C.H & CLP regulations. Shelf life: Not less than 3 years.

# Safety Data Sheet

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## PRODUCT NAME: RINSE AID

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product Name RINSE AID  
Product No. KR 309

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Cleaning agent

#### 1.3. Details of the supplier of the safety data sheet

Supplier JSK Eco Cleaning Solutions, Tramore Road, Cork, Ireland  
Tel: +353-21 4318545 Fax: +353-21 4312459  
Email: [info@jskcleaning.ie](mailto:info@jskcleaning.ie)

1.4. Emergency Contact: National Poisons Information Centre, Beaumont Hospital,  
Beaumont Road, Dublin 9. Tel: +353(01)8092566

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Classification: Regulation (EC) No 1272/2008: H227, H319, H336  
Human health: Combustible Liquid. Causes serious eye irritation. May cause drowsiness or dizziness  
Environment: This product is Readily Biodegradable and not expected to be hazardous to the environment

#### 2.2. Label elements

Detergent Labelling: Contains: Isopropyl Alcohol  
Labelling



WARNING

Hazard Phrases	H227 H319 H336	Combustible Liquid Causes serious eye irritation May cause drowsiness or dizziness
Precautionary Statements	P210 P280 P264 P305, 351 338, 337 313 P261 P271 P403, 405, 235 P304 & 340  P370 & 378  P501	Keep away from flames & hot surfaces. No smoking Wear protective gloves, eye & face protection Wash hands thoroughly after handling IF IN EYES: Flush eyes with water, remove contact lenses if present & easy to do so & continue rinsing. If irritation persists get medical advice/attention Avoid breathing vapours or spray mist Use only outdoors or in a well-ventilated area Store locked up in a well ventilated place. Keep cool. IF INHALED: Remove person to fresh air & keep at rest in a position comfortable for breathing. Call a poison centre or doctor/physician if you feel unwell. In case of fire: Use Alcohol-resistant foam, carbon dioxide, dry powder or water fog to extinguish Dispose of contents/container to in accordance with local regulations. Recover, reclaim or recycle, where possible.

2.3. Other hazards N/A

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

PROPAN-2-OL CAS-No.: 67-63-0	EC No.: 200-661-7	10-15%
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		
CITRIC ACID CAS-No.: 77-92-9	EC No.: 201-069-1	1-5%
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335		
ALCOHOLS, C11-15 SECONDARY, ETHOXYLATED PROPOXYLATED CAS-No.: 68551-14-4	EC No.:	1-5%
Classification (EC 1272/2008) Aquatic Chronic 3 – H412		

A Full Text for all Hazard Statements are Displayed in Section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

Inhalation:	Remove person to fresh air & keep at rest in a position comfortable for breathing. Call a poison centre or doctor/physician if you feel unwell.
Skin Contact:	Remove contaminated clothing & rinse skin with water
Eye Contact:	Flush eyes with water, remove contact lenses if present & easy to do so & continue rinsing. If irritation persists get medical advice/attention.
Ingestion:	Move affected person to fresh air & keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention.
Protection of first aider:	Avoid inhalation, contact with eyes (see Section 8.)

### 4.2. Most important symptoms and effects, both acute and delayed

Inhalation:	May cause drowsiness or dizziness. Vapours may irritate throat and/or respiratory system.
Ingestion:	Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
Skin contact:	Prolonged or excessively exposure may cause skin dryness or cracking.
Eye contact:	Irritating to eyes. Symptoms following overexposure may include redness &/or pain.

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## 4.3. Indication of any immediate medical attention and special treatment needed

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

### SECTION 5: FIRE FIGHTING MEASURES

- |     |  |  |
|-----|--|--|
| 5.1 | Suitable Extinguishing Media:                          | Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog  |
| 5.2 | Unsuitable:  | Do not use water jet as an extinguisher, as this will spread the fire  |
| 5.3 | Specific Hazards:                                      | Oxides of the following substances: Carbon. The product is highly flammable. Vapours are heavier than air and may spread near ground & travel a considerable distance to a source of ignition & flash back. Avoid breathing fire vapours. Harmful vapours or gases may be formed in a fire |
| 5.4 | Special Equipment for the protection of Fire Fighters: | Wear full protective clothing & breathing apparatus.   |

### SECTION 6: ACCIDENTAL RELEASE MEASURES

- |     |                            |  |
|-----|----------------------------|--|
| 6.1 | Personal Precautions:      | Do not smoke, use open fire or other sources of ignition. Avoid contact with eyes (see Section 8.)   |
| 6.2 | Environmental Precautions: | No special measures required   |
| 6.3 | Methods for Cleaning up:   | Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect & place in suitable waste disposal containers & seal securely. For waste disposal, see Section 13. |

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Handling

- |                       |   |
|-----------------------|---|
| Technical Measures:   | No special measures required.                 |
| Safe Handling Advice: | None noted. Comply with instructions for use. |

#### 7.2 Storage

- |                        |   |
|------------------------|---|
| Technical Measures:    | No special measures required.   |
| Storage Conditions:    | Store in a cool dry place away from heat or sources of ignition.                    |
| Incompatible Products: | None known.   |
| Packaging:             | Plastic Drums.  |
| Packaging Materials:   | Recommended: Plastic Materials, Polyethylene, Polypropylene.<br>Not Suitable – N/A. |

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Engineering Measures: No special measures required.

8.2 Personal Protection Equipment:



Respiratory Protection: Provide adequate ventilation in areas of confined space.  
Hand Protection: No protection necessary. If excessive exposure expected use PVC gloves  
Eye Protection: Use Chemical Goggles or Face Shield to EN Standard 166 Level 3 or higher  
Skin Protection: Wear Plastic Apron EN Standard 13034 Type PB[6]

8.3 Hygiene Measures: Handle in accordance with good industrial hygiene and safety practices.

8.4 Occupational Exposure Limits:

Name	STD	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15 minute reference period)		Notes
		ppm	mg/m3	Ppm	mg/m3	
PROPAN-2-OL	OELV	200	-	400	-	

OELV = Occupational Exposure Limit Value.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

a)	Appearance:	Blue Liquid.
b)	Odour:	Alcohol
c)	Odour threshold:	N/A
d)	pH:	3+/-0.5 (undiluted)
e)	Melting point / freezing point:	No data available
f)	Initial boiling point & boiling range:	No data available
g)	Flash point:	No data available
h)	Evaporation rate:	No data available
i)	Flammability solid, gas:	No data available
j)	Upper/lower flammability or explosive limits:	No data available
k)	Vapour pressure:	No data available
l)	Vapour density:	No data available
m)	Relative density:	0.98kg/dm3
n)	Solubility(ies):	Soluble in Water
o)	Partition coefficient: n-octanol/water:	No data available
p)	Auto-ignition temperature:	No data available
q)	Decomposition temperature:	No data available
r)	Viscosity:	No data available
s)	Explosive properties:	No data available
t)	Oxidizing properties:	No data available

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## SECTION 10: STABILITY AND REACTIVITY

<u>10.1. Reactivity:</u>	Strong oxidising agents. Strong acids
<u>10.2. Chemical stability:</u>	Stable under normal temperature conditions and recommended use.
<u>10.3. Possibility of hazardous reactions:</u>	Hazardous Polymerisation N/A
<u>10.4. Conditions to avoid:</u>	Avoid heat, flames & other sources of ignition. Do not mix with strong acids or oxidising agents.
<u>10.5. Incompatible materials:</u>	Strong acids or oxidising agents.
<u>10.6. Hazardous decomposition products:</u>	None under normal conditions.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects:

Inhalation:	May cause drowsiness or dizziness. Vapours may irritate throat and/or respiratory system.
Ingestion:	Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
Skin contact:	Prolonged or excessively exposure may cause skin dryness or cracking.
Eye contact:	Irritating to eyes. Symptoms following overexposure may include the redness &/or pain.

### 11.2. Toxicological information on ingredients:

#### PROPAN-2-OL (CAS: 67-63-0)

##### Acute toxicity:

- Acute Toxicity (Oral LD50)  
5.84 g/kg Rat
- Acute Toxicity (Dermal LD50)  
16.4 mL/kg Rabbit
- Acute Toxicity (Inhalation LC50)  
> 10000 ppm (vapours) Rat
- REACH dossier information

#### CITRIC ACID (CAS: 77-92-9)

##### Acute toxicity:

- Acute Toxicity (Oral LD50)  
5200 mg/kg Rat
- Acute Toxicity (Dermal LD50)  
> 2000 mg/kg Rat
- REACH dossier information

## SECTION 12: ECOLOGICAL INFORMATION

### Eco-toxicity

Not regarded as dangerous for the environment. The product is easily biodegradable.

### 12.1. Toxicity

#### Ecological information on ingredients:

#### PROPAN-2-OL (CAS: 67-63-0)

- Acute Toxicity - Fish  
LC50 9640 mg/l Pimephales promelas (Fat-head Minnow)
- Acute Toxicity - Aquatic Invertebrates  
LC50 24 hours > 10000 mg/l Daphnia magna
- Acute Toxicity - Aquatic Plants  
Toxicity threshold 168 hours 1800 mg/l Scenedesmus quadricauda
- REACH dossier information

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## CITRIC ACID (CAS: 77-92-9)

Acute Toxicity - Fish

LC50 48 hours 440 mg/l *Leuciscus idus* (Golden orfe)

Acute Toxicity - Aquatic Invertebrates

LC50 24 hours 1535 mg/l *Daphnia magna*

Acute Toxicity - Aquatic Plants

Toxicity threshold 192 hours 640 mg/l *Scenedesmus quadricauda*

NOEC 192 hours 425 mg/l *Scenedesmus quadricauda*

REACH dossier information

### 12.2. Persistence and degradability

**Degradability:** The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential No data available on bioaccumulation.

12.5. Results of PBT and vPvB assessment Not determined.

12.6. Other adverse effects Not determined.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

**General information:** Small amounts (less than 5 Litres) of unwanted product may be flushed with water to sewer. Larger volumes must be sent for disposal to licensed waste disposal site in accordance with local Waste Disposal Authority. Consign empty container to normal waste.

### 13.1. Waste treatment methods

Dispose of waste in accordance with local regulations. Recover, reclaim or recycle, where possible.

## **SECTION 14: TRANSPORT INFORMATION**

### **REGULATIONS**

RID/ADR:

ICAO/IATA-DGR:

GGVSee/IMDG-Code:

### **CLASS**

3: Flammable liquids.

3: Flammable liquids.

3: Flammable liquids.

14.1. UN number 1987

14.2. UN proper shipping name ALCOHOLS, N.O.S. (isopropanol)

14.3. Transport hazard class(es)

Class 3. F3 Articles containing flammable liquids

14.4. Packing Group

III

14.5. Environmental Hazards

Environmentally Hazardous Substance/Marine Pollutant: N/A

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## SECTION 15: REGULATORY INFORMATION

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

#### Statutory Instruments

Corresponding to Preparations Regulations S.I. No. 62 of 2004

#### Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

#### Guidance Notes

Workplace Exposure Limits EH40.

#### EU Legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

#### Revision Comments

Re-issued according to Regulation (EU) No 453/2010.

Revision Date: 01.01.21

Revision No: 5

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#### Hazard Statements In Full

H225 Highly flammable liquid & vapour

H227 Combustible Liquid

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness

H315 Causes skin irritation

H335 May cause respiratory irritation

H412 Harmful to aquatic life with long lasting effects

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The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should therefore not be construed as guaranteeing specific properties.