

Professional Rinse aid for dishwashers

SECTION 1. Identification of the substance or mixture and the company/business

1.1 Identification of the product

Commercial name: PROFESSIONAL RINSE AID FOR DISHWASHERS
Commercial code: OS2094

1.2 Applicable recognised uses for the substance or mixture and non-recommended uses

RINSE AID FOR DISHWASHERS

Sector of use:

Professional use [SU22]

Non-recommended uses

Do not use for any purpose other than those indicated.

1.3 Information on the supplier of the safety information sheet

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1.4 Emergency telephone number

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United Kingdom (UK): National Poisons Information Service (NPIS)

SECTION 2. Identification of hazards

2.1 Classification of the substance or mixture

2.1.1 Classification pursuant to Regulation (EC) No. 1272/2008:

Pictograms:

GHS07

Hazard class and category codes:

Eye Irrit. 2

Hazard indication codes:

H319 - Causes serious eye irritation.

The product, if brought into contact with the eyes, provokes serious irritation which can last for more than 24 hours.

2.2 Label elements

Labelling conforming to regulation (EC) no. 1272/2008

Pictograms, warning codes:

GHS07 – Warning



Hazard indication codes:

H319 - Causes serious eye irritation.

Supplementary hazard indication codes:

Not available

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Safety recommendations:

Prevention

P280 - Wear eye protection.

Reaction

P305+P351+P338 - IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing

P337+P313 - If eye irritation persists: get medical advice/attention.

Contains (Reg. EC 648/2004):

>15% < 30% Non-ionic surfactants.

2.3 Other hazards

The substance/mixture DOES NOT contain PBT/vPvB substances pursuant to Regulation (EC) 1907/2006, appendix XIII.

No information on other hazards.

Exclusively for professional use.

SECTION 3. Composition/information on ingredients

3.1 Substances

Not pertinent.

3.2 Mixtures

Refer to point 16 for the complete text regarding hazard indications.

NOTE: SUBSTANCES MARKED WITH AN ASTERISK (*) PRESENT SPECIFIC LIMITS

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
Ethanol (*)	> 10 <= 20%	Flam. Liq. 2, H225	603-002-00-5	64-17-5	200-578-6	01-2119457610-43
Citric acid	> 10 <= 20%	Eye Irrit. 2, H319		5949-29-1	201-069-1	01-2119457026-42
Alcohols, C12-14, ethoxylated propoxylated	> 5 <= 10%	Aquatic Chronic 3, H412		68439-51-0		
Propan-2-ol	> 1 <= 5%	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	603-117-00-0	67-63-0	200-661-7	01-2119457558-25
Alcohols, C12-14, ethoxylated propoxylated	> 1 <= 5%	Aquatic Chronic 3, H412		68439-51-0		
Alpha-Epoxides, C10-alkyl, reaction products with Oxo alcohol C11, ethoxylated	> 1 <= 5%	Eye Irrit. 2, H319; Aquatic Chronic 3, H412		501019-90-5		

SECTION 4. First aid measures

4.1 Description of first aid measures

Inhalation:

Ventilate the area. Immediately remove the patient from the contaminated area and allow them to rest in well-ventilated area. In case of illness contact a doctor.

Direct contact with the skin (undiluted product):

Immediately remove contaminated clothing.

Immediately wash the areas of the body that have come into contact with the product abundantly with running water and eventually soap, even if the contact is only suspected.

Direct contact with the eyes (undiluted product):

Immediately rinse open eyes abundantly with running water for at least 10 minutes; then protect the eyes with a dry, sterilised bandage. Immediately see a doctor.

Do not use eyewashes or ointments of any kind before undergoing an examination or receiving advice from an optician.

Swallowing:

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Rinse the mouth thoroughly. It is possible to administer active carbon in water or in mineral medical Vaseline oil.

4.2 Principal symptoms and effects, both immediate and delayed

No data available.

4.3 Indications of the eventual necessity to immediately consult a doctor and of special treatment

If eye irritation persists: get medical advice/attention.

SECTION 5.. Fire prevention measures

5.1 Extinguishers

Recommended extinguishers:

Fog, CO₂, foam, chemical powders according to the materials involved in the fire.

Extinguishers to be avoided:

Use water jets only to cool the surfaces of containers exposed to fire.

5.2 Special hazards deriving from the substance or mixture

No data available.

5.3 Recommendations for firefighting teams

Use respiratory protection.

Safety helmets and complete protective clothing,

Fog can be used to protect the people involved in extinguishing the fire.

It is furthermore recommended to use breathing apparatus particularly for operations in enclosed and poorly ventilated areas and in any case with the use of halon extinguishers (fluobrene, solkane 123, naf etc.).

Cool the containers with water jets.

SECTION 6. Measures in the case of accidental spills

6.1 Personal precautions, protective measures and emergency procedures

6.1.1 For those not directly intervening:

Move away from the area surrounding the leak or spill. Do not smoke.

6.1.2 For those directly intervening:

Wear a mask, gloves and protective clothing,

Eliminate all naked flames and possible sources of ignition. Do not smoke.

Provide adequate ventilation.

Evacuate the area of danger and, if necessary, consult an expert.

6.2 Environmental precautions

Contain leaks with earth or sand.

If the product has flowed into a watercourse, sewer or has contaminated soil or vegetation, contact the competent authorities.

Dispose of the residue in accordance with regulations in force.

6.3 Methods and materials for containment and decontamination

6.3.1 For containment

Quickly collect the product, wearing a mask and protective clothing.

Collect the product for reuse, if possible, or for disposal. If necessary, absorb liquids with inert materials.

Block entry into the sewage system.

6.3.2 For cleaning

Following collection, wash the area and materials involved with water.

6.3.3 Other information:

No particular information.

6.4 References to other sections

Refer to points 8 and 13 for further information.

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SECTION 7. Handling and storage

7.1 Precautions for safe handling

Avoid contact and the inhalation of fumes.
Wear eye protection.
Do not eat or drink while working.
See also the following paragraph 8.

7.2 Conditions for safe storage, including eventual incompatibility

Store the product in its original container, properly closed. Do not store in open or unlabelled containers.
Keep the containers upright and safe, avoiding the possibility of falls or knocks.
Store in a cool place, far from sources of heat and direct exposure to sunlight.

7.3 Specific usage

Professional use:
Handle with care.
Store in a ventilated area far from sources of heat.
Keep the container properly closed.

SECTION 8. Control of exposure/individual protection

8.1 Parameters of control

Relative to the substances contained:

Ethanol (*)

TLV: 1000 ppm as per TWA A4 (not classifiable as carcinogenic to humans); (ACGIH 2004).

MAK: 500 ppm 960 mg/m³; peak limitation category: II(2); Carcinogenicity class: 5; Pregnancy risk group: C; Mutagenic group for germ cells: 5; (DFG 2004).

Propan-2-ol

TLV: 200 ppm as per TWA 400 ppm as per STEL A4 (not classifiable as carcinogenic to humans); (ACGIH 2004).

MAK: 200 ppm 500 mg/m³; peak limitation category: II(2); Pregnancy risk group: C; (DFG 2004).

Citric acid

PNEC:

Freshwater: 0.44 mg/l

Sediment (freshwater): 3.46 mg/kg

Sediment (sea-water): 34.6 mg/kg

Sea-water: 0.044 mg/l

STP: > 1000 mg/l

Soil: 33.1 mg/kg

8.2 Exposure controls

Suitable technical controls:

Professional use:

No controls expected.

Individual protective measures:



a) Protection of the eyes / face

During the handling of the undiluted product use safety goggles (sealed goggles) (EN 166).

b) Skin protection

i) Hand protection

Not necessary for standard use.

ii) Other

Wear standard work clothing.

c) Respiratory protection

Not necessary for standard use.

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d) Thermal hazards
 No hazard to indicate.

Environmental exposure controls:
 Use according to good working practices, avoiding contamination of the environment.

SECTION 9. Physical and chemical properties

9.1 Information on fundamental physical and chemical properties

Physical and chemical properties	Value	Method of determination
Aspect	clear light-blue liquid	
Fragrance	mild and characteristic	
Olfactory threshold	not available	
pH	2 - 2.5	
Melting point/freezing point	< 0°C	
Initial boiling point and boiling interval	approximately 100°C	
Flash point	> 70°C	
Evaporation rate	not available	
Flammability (solids, gas)	non flammable	
Upper/lower limits of flammability or explosiveness	non flammable	
Vapour pressure	not available	
Vapour density	not available	
Relative density	1,020 g/ml	
Solubility	in water	
Water solubility	dispersible	
Partition coefficient: n-octanol/water	not available	
Self-ignition temperature	not available	
Decomposition temperature	not available	
Viscosity	not available	
Explosive properties	non explosive	
Oxidising properties	non oxidising	

9.2 Other information

No data available.

SECTION 10. Stability and reactivity

10.1 Reactivity

No risk of reactivity

10.2 Chemical stability

There are no dangerous reactions if handled and stored according to instructions.

10.3 Possibility of dangerous reactions

There are no hazardous reactions predicted.

10.4 Conditions to be avoided

Nothing to indicate.

10.5 Incompatible materials

None known

10.6 Dangerous decomposition products

It does not decompose if used for the purposes provided for.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

ATE (mix) oral = N.A.

ATE (mix) dermal = N.A.

ATE (mix) inhal = N.A.

(a) acute toxicity: according to the data available the criteria of classification are not met.

(b) corrosion / irritation of the skin: according to the data available the criteria of classification are not met.

(c) severe eye damage / irritation: The product, if brought into contact with the eyes, provokes serious irritation which can last for more than 24 hours.

(d) sensitisation of respiratory tracts or the skin: according to the data available the criteria of classification are not met.

(e) mutagenicity of germ cells: according to the data available the criteria of classification are not met.

(f) carcinogenicity: according to the data available the criteria of classification are not met.

(g) reproductive toxicity: according to the data available the criteria of classification are not met.

(h) specific target organ toxicity (STOT) single exposure: according to the data available the criteria of classification are not met.

(i) specific target organ toxicity (STOT) single exposure: according to the data available the criteria of classification are not met.

(j) danger of aspiration: according to the data available the criteria of classification are not met.

Relative to the substances contained:

Ethanol (*)

LC50 Inhalation (rat): 20000 ppm, 10 h

LD50 Oral (rat) (mg/kg of body weight) = 14000

LD50 Skin (rat or rabbit) (mg/kg of body weight) = 20000

Citric acid

Acute oral toxicity (rat): > 11700 mg/kg (Method OECD TG 401)

Acute oral toxicity (mouse): > 5400 mg/kg (Method OECD TG 401)

Eye contact: may cause irritation

Skin contact: may cause irritation

LD50 Skin (rat or rabbit) (mg/kg of body weight) = 2000

Alcohols, C12-14, ethoxylated propoxylated

LD50 Oral (rat) (mg/kg of body weight) = 2000

LD50 Skin (rat or rabbit) (mg/kg of body weight) = 5000

Propan-2-ol

LD50 Oral (rat) (mg/kg of body weight) = 4700

CL50 Inhalation (rat) of vapour/dust/aerosol/smoke (mg/1/4h) or gas (ppmV/4h) = 46

Alcohols, C12-14, ethoxylated propoxylated

LD50 Oral (rat) (mg/kg of body weight) = 2000

Alpha-Epoxides, C10-alkyl, reaction products with Oxo alcohol C11, ethoxylated

LD50 Oral (rat) (mg/kg of body weight) = 2000

SECTION 12. Ecological information

12.1 Toxicity

Relative to the substances contained:

Ethanol (*)

Toxicity in fish, LC50 > 10000 mg/l

Toxicity in Daphnia, CEE0: > 7800 mg/l

Bacterial toxicity (Ps. Putida), CEE0: > 6500 mg/l

Toxicity on algae (SC. Quadricauda), CEE0: > 5000 mg/l

Toxicity on algae (M. Aeruginosa), CEE0: > 1450 mg/l

Citric acid

Toxicity for fish (goldfish), LC50: 440-760 mg/l, 96 h

Toxicity for bacteria: > 10000 mg/l

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Aquatic toxicity:

EC50 (Chlorella vulgaris): 18000-32000 mg/l (OECD 201)

EC50 (daphnia magna): 5600-10000 mg/l (OECD 202)

LC50 (daphnia magna): 1535 mg/l, 24h

LC50 (Fish): 440 mg/l, 48h

Alcohols, C12-14, ethoxylated propoxylated

Fish toxicity:

Leuciscus idus, CL50: > 1 - < 10 mg/l (DIN 38412 part 15)

Aquatic invertebrates:

Daphnia magna, CE50: 1 - < 10 mg/l (OECD - guideline 202, part 1)

Aquatic plants:

CE50: 1 - < 10 mg/l (OECD - guideline 201)

CE10: 1 - < 10 mg/l, Long-term effects

Micro-organisms/Effects on active muds:

Pseudomonas putida, CE0: > 100 mg/l (OECD - guideline 209)

Pseudomonas putida, CE0: > 100 mg/l (DIN 38412 part 8)

C(E)L50 (mg/l) = 1

Propan-2-ol

Fish (Pimephales Promelas), LC50: 9640-10400 mg/l, (96h)

Daphnia (Daphnia Magna), EC50: 2285-13299 mg/l, (48h)

Alcohols, C12-14, ethoxylated propoxylated

Acute fish toxicity:

LC50 > 1 - <= 10 mg product/l. (Analogy)

GHS: Category 2 (not implemented in EU)

Acute bacterial toxicity:

EC0 > 100 mg product/l. (Analogy)

C (E)L50 (mg/l) = 1

Alpha-Epoxides, C10-alkyl, reaction products with Oxo alcohol C11, ethoxylated

Fish toxicity:

CL50 (96 h) > 1 - < 10 mg/l, Pimephales promelas (Screening (type OECD 203))

Aquatic invertebrates:

CE50 (48 h) > 1 - < 10 mg/l (OECD - guideline 202, part 1)

Aquatic plants:

CE50 (72 h) > 10 - < 100 mg/l (growth rate), Scenedesmus subspicatus

Micro-organisms/Effects on active muds:

CE0 > 1 - 10 mg/l

Use according to good working practices, avoiding contamination of the environment.

12.2 Persistence and degradability

Relative to the substances contained:

Citric acid

Rapidly biodegradable > 98% (DIN 38412)

COD: 750 mg/O₂/g

Alcohols, C12-14, ethoxylated propoxylated

Evaluation of biodegradability and elimination (H₂O):

Easily biodegradable (according to OECD criteria)

Considerations regarding disposal:

Values > 60% BOD/COD, 28 days (OECD 301F; ISO9408; 92/69/CEE, C.4-D)

Alcohols, C12-14, ethoxylated propoxylated

Easy and quick to degrade: in tests of easy degradability, all the substances contained in the product obtained values of >60% BOD/COD, or rather the formation of CO₂, or rather >70% decrease in DOC. This is within the limit values provided for regarding "readily degradable" (for example OECD 301 methods).

Alpha-Epoxides, C10-alkyl, reaction products with Oxo alcohol C11, ethoxylated

Easy and quick to degrade.

12.3 Bioaccumulation potential

Relative to the substances contained:

Alcohols, C12-14, ethoxylated propoxylated

Evaluation of the potential for bioaccumulation:

Accumulation should not be expected in organisms

Alpha-Epoxides, C10-alkyl, reaction products with Oxo alcohol C11, ethoxylated

Accumulation should not be expected in organisms.

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12.4 Mobility in soil

Relative to the substances contained:

Alcohols, C12-14, ethoxylated propoxylated

Evaluation of transfer between environments:

The substance does not evaporate into the atmosphere from the surface of water.

An absorption of the solid form into soil is possible.

12.5 Results of PBT and vPvB evaluations

The substance/mixture DOES NOT contain PBT/vPvB substances pursuant to Regulation (EC) 1907/2006, appendix XIII.

12.6 Other adverse effects

No adverse effects found.

Regulation (EC) no. 2006/907 - 2004/648

The surfactant(s) contained in this formula conform(s) to the criteria for biodegradability established by regulation EC/648/2004 relating to detergents. All supporting data is available to the competent authorities of the Member States and will be supplied, upon their explicit request or on request of a producer of the formula, to the aforementioned authorities.

SECTION 13. Considerations regarding disposal

13.1 Methods for the treatment of refuse

Do not reuse empty containers. Dispose of them in accordance with regulations in force. Eventual product residue must be disposed of according to regulations in force by contacting an authorised company.

Reuse if possible. Operate according to local and national dispositions in force.

SECTION 14. Information on transportation

14.1 UN Number

Not included in the field of application of regulations regarding the transport of hazardous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by seas (IMDG).

14.2 UN Shipping name

None.

14.3 Hazard classes associated with transport

None.

14.4 Packaging group

None.

14.5 Environmental hazard

None.

14.6 Special precautions for users

No data available

14.7 Bulk transportation according to appendix II of MARPOL 73/78 and the IBC code

Bulk transportation is not permitted.

SECTION 15. Information on regulations

15.1 Specific legislative and regulative dispositions regarding health, safety and the environment for the substance or mixture.

Legislative Decree 3/2/1997 no. 52 (Classification, packaging and labelling of hazardous substances). Legislative Decree 14/03/2003 no. 65 (Classification, packaging and labelling of hazardous substances). Legislative Decree 2/2/2002 no. 25 (Risks deriving from chemical agents during work). Ministerial Decree for Work 26/02/2004 (Professional exposure limits); Ministerial Decree 03/04/2007 (Fulfilment of directive no. 2006/8/EC). Regulation (EC) no. 1907/2006 (REACH), Regulation (EC) no. 1272/2008 (CLP), Regulation (EC) no. 790/2009. Legislative Decree 21 September 2005 no. 238 (Seveso Directive III).

15.2 Evaluation of chemical safety

The supplier has not carried out an evaluation of chemical safety.

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SECTION 16. Other information

16.1 Other information

Descriptions of hazard indications shown in point 3

H225 = Highly flammable liquid and vapour.

H319 = Causes serious eye irritation.

H412 = Harmful to aquatic life with long lasting effects

H336 = May cause drowsiness or dizziness.

Classification carried out on the basis of data regarding all of the components in the mixture

Principal regulatory references:

Directive 2001/60/EC

Regulation 2008/1272/EC

Regulation 2010/453/EC