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SAFETY DATA SHEET

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

1.1 Product identifiers

Trade Name	Description	Unit	Code
Teepol	Ultra Rinse Aid	4 x 5L	0112
Teepol	Ultra Rinse Aid	20 L Drum	0113
Teepol	Ultra Rinse Aid	10 L Drum	0114

1.2 Relevant identified uses of the substance/mixture and uses advised against

High active rinse aid for use with automatic glass & dish washers.

1.3 Details of the supplier of the safety data sheet

Company Address *Teepol Products, Harvey Waddington, Murray Road, Orpington, Kent BR5 3QY*

Telephone *01689 877020*
Fax *01689 877027*
E-Mail *sales@teepol.co.uk*

1.4 Emergency telephone number

+44 (0)1689 877020 (09:00 - 16:00 Monday to Friday)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP

None, None

2.2 Label elements

Signal Word: *Hazard Pictograms:*

Hazard Statements:

None

Precautionary Statements:

Disposal

P501 Dispose of contents/container to licensed waste disposal site.

Storage

P102 Keep out of reach of children.

2.3 Other hazards

EUH none None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Substance Name	REACH Reg. No.	CAS-No	EC-No.	Amount [%]

Propan-2-ol	**603-117-00-0**	**67-63-0**	**200-661-7**	**<5**

Hazard Class	Hazard Category	Hazard Statements
Serious eye damage/irritation	Eye. Irrit. 2	H319 Serious eye damage/irritation
Flammable liquid	Flam. Liq. 2	H225 Flammable liquid

Substance Name	REACH Reg. No.	CAS-No	EC-No.	Amount [%]
Citric Acid	**01-2119457026-42**	**5949-29-1**	**201-069-1**	**<5**

Hazard Class	Hazard Category	Hazard Statements
Serious eye damage/irritation	Eye. Irrit. 2	H319 Serious eye damage/irritation

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice

Remove contaminated clothing.

After inhalation

Ensure supply of fresh air and seek medical attention.

After contact with skin

Wash splashes from skin immediately. If skin becomes sore or inflamed seek medical attention.

After contact with eyes

Irrigate with water for 10 to 15 minutes until irritation subsides. If irritation persists seek medical attention.

After ingestion:

If conscious, give plenty of water to drink, do not induce vomiting, obtain medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Eye and skin irritation

4.3 Indication of any immediate medical attention and special treatment needed

Rinse with clean water

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media: This product is not flammable. Use fire extinguishing media appropriate for surrounding area.

5.1 Unsuitable extinguishing media: Not applicable.

5.2 Special hazards arising from the substance or mixture

May produce oxides of carbon, nitrogen, sodium and sulphur.

5.3 Advice fo Fire Fighters

Wear self-contained breathing apparatus and protective clothing as appropriate to the associated fire.

SECTION 6: ACCIDENTAL RELEASE MEAS

6.1 Personal precautions, protective equipment and emergency procedures

Use appropriate PPE. Avoid breathing vapours if any and ensure adequate ventilation. Cordon off area to other personnel.

6.2 Environmental precaution

Do not allow to enter surface water drains, soil/subsoil.

6.3 Methods and material for containment and cleaning up

Absorb with sand or binder and dispose of according to local regulations. Small spillages may be flushed to a foul drain.

6.4 Reference to Other Sections: See Section 8 and 13 for more information on exposure and disposal.

SECTION 7: HANDLING and STORAGE

7.1 Precautions for safe handling

Provide good ventilation in working area. Wash hands after use and do not allow to enter surface water drains.

7.2 Conditions for safe storage, including any incompatabilities

Store only in original containers out of reach of children. Storage temperature should be between 5'C and 30'C.

7.3 Specific end use(s)

Use only as directed on the container or label.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control paramenters

(Propanol) OES: TWA 8 hours 400ppm STEL: 15 mins 500ppm.

8.2 Exposure Controls

Do not eat, drink or smoke whilst working and wash hands after use.

Exposure Controls - Eyes: Avoid contact with eyes.

Exposure Controls - Skin: Wear vinyl, latex or nitrile gloves.

Exposure Controls - Respiratory Avoid breathing vapours. Provide adequate ventilation.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance / Odour Blue liquid with propanol odour. (Method: QP22)

pH (10% soln.) <2 (Method: QP03)

Melting/freezing point: 0'C

Flammable / Flash point Not Flammable

Relative density 1.01 g/cm3 @ 20'C (Method: QP07)

Solubility: Soluble/dispersible in water

Viscosity: As water @20'C (Method: QP04)

Oxidising properties: Not applicable.

Explosive properties: Not applicable.

9.2 Other Information

No information available.

SECTION 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: None known

10.6 Hazardous Decomposition Products May produce toxic products of combustion when invoved with a fire.

10.4 Conditions to Avoid: None known

10.5 Incompatible Materials: None known

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Substance	Toxicity
Propan-2-ol	Acute Toxicity (Oral LD50) > 2000 mg/kg Rat Acute Toxicity (Dermal LD50) > 2000 mg/kg Rabbit Acute Toxicity (Inhalation LC50) > 20 mg/l (vapours) Rat 4 hours Serious Eye Damage/Irritation - Irritating Not sensitizing Not a carcinogen General Information Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. Inhalation Vapours may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness. Prolonged inhalation of high concentrations may damage respiratory system. Vapours may cause headache, fatigue, dizziness and nausea. Harmful: possible risk of irreversible effects through inhalation. Ingestion. - Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. Irritating. May be absorbed in the body and cause dizziness, nausea and vomiting. Swallowing concentrated chemical may cause severe internal injury. Skin Contact - Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Risk of sensitisation or allergic reactions among sensitive individuals. Eye Contact - Extreme irritation of eyes and mucous membranes, including burning and tearing. Risk of corneal damage. Route of entry - Inhalation. Ingestion. Skin and/or eye contact. Target Organs - Central nervous system Eyes Gastro-intestinal tract Skin Medical Symptoms - Extreme irritation of eyes and mucous membranes, including burning and tearing.

	Visual disturbances, incl. Blurred vision. Nausea, vomiting. Headache. Medical Considerations - Splash in eye requires examination by eye specialist.
Citric Acid	Toxicity values: ORAL RBT LD50 11700 mg/kg ORAL MUS LD50 5040 mg/kg Relevant hazards for substance: Serious eye damage/irritation OPT Based on test data Symptoms / routes of exposure Skin contact: There may be irritation and redness at the site of contact. An itchy rash may occur at the site of contact. Repeated or long exposure can cause reddening, burning and blisters. Eye contact: There may be irritation and redness. The eyes may water profusely. May cause mechanical irritation to the eyes. Ingestion: May cause mild irritation of the gastrointestinal tract if large quantities are ingested. Nausea and stomach pain may occur. There may be vomiting. Inhalation: May cause irritation of the mucous membranes and respiratory system. Delayed / immediate effects: Immediate effects can be expected after short-term exposure. Other information: Not applicable.

No information regarding interactions between the ingredients in this mixture is available, therefore, the information shown above is separately reported for each relevant ingredient used in the mixture even though it may be present below its concentration limit and represent no toxicity in the mixture as a whole.

SECTION 12: ECOLOGICAL INFORMATION

No specific information is available for this mixture, therefore, the following information regarding the relevant substances used in this mixture is provided, even though they may be present below the concentration limit and represent minimal or no toxicity to the environment.

Substance	ECO Toxicity
Propan-2-ol	Ecotoxicity: The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. 12.1. Toxicity Acute Toxicity - Fish LC50 48 hours > 100 mg/l Leuciscusidus (Golden orfe) Acute Toxicity Aquatic Invertebrates EC50 48 hours > 100mg/l Daphnia magna Acute Toxicity - Aquatic Plants EC50 72 hours > 100 mg/l Scenedesmus subspicatus 12.2. Persistence and degradability Degradability: Readily biodegradable meeting the 10 day window criterion. The product is biodegradable. Oxidises rapidly by photochemical reactions in air. Integrated environmental half-life expected to be 1-<10 days Dominant loss process - biodegradation Chemical Oxygen Demand 2.2 g O2/g substance 12.3. Bioaccumulative potential Bioaccumulative Potential: Does not bioaccumulate significantly Partition Coefficient 0.05 12.4. Mobility in soil Mobility: The product is water soluble and may spread in water systems. Large volumes may penetrate soil and could contaminate groundwater Product remaining on soil surface evaporates within one day If product enters soil it will be mobile and may contaminate groundwater. 12.5. Results of PBT and vPvB assessment This product does not contain any PBT or vPvB Substances. 12.6. Other adverse effects The product contains volatile, organic compounds which have a photochemical ozone creation potential.

Citric Acid	Ecotoxicity values: GOLDFISH 96H LC50 440 - 706 mg/l

12.2. Persistence and degradability
Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential
Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil
Mobility: Soluble in water.

12.5. Results of PBT and vPvB assessment
PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects
Other adverse effects: Negligible ecotoxicity. Do not allow to enter watercourses or soils. Spillage in sewers or waterways must be avoided. Large doses causes high/low pH which may affect effluent and sewage treatment processes. Discharge of large quantities may kill fish and other aquatic life due to increase/decrease in pH.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

When disposing of surplus or waste product use suitable PPE etc. ensuring empty containers are rinsed out and disposed of safely. Do not allow product to enter land or surface water drains. Dispose of in accordance with local authority regulations. Do not mix with other waste materials.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number: N/A

14.2 Shipping Name: Teepol Ultra Rinse Aid

14.3 Transport hazard class None

14.4 Packing group: N/A

14.5 Environmental Hazards: None

14.6 Special precautions for user:

No information

14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code:

No information

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environment regulation/legislation specific to the substance or mixture

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.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Guidance

ECHA Guidance on the application of CLP criteria (Version 4: November 2013)
ECHA Guidance on the compilation of safety data sheets (Version 2.1: February 2014)

15.2 Chemical safety assessment

No information

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under section 3

H319 Causes serious eye irritation.

H225 Highly flammable liquid and vapour.

Directions:

For use via dosing equipment please refer to machine manufacturer's instructions. (Use between 40 and 300ppm)

Further Information: The latest version of this data sheet may be obtained from the Harvey Waddington Web Site at: www.teepol.co.uk

GLOSSARY: PPE Personal protective equipment. N/A Not applicable. N/K Not known OES Occupational exposure limit
TWA Time weighted average W/V Weight to volume

The data contained in this Safety Data Sheet has been supplied for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.

ANIMAL TESTING: Teepol Products (UK) do not test their finished products on animals.

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