

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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# Trade name: Katadyn Membrane Preservative (8013609)

Revision 4
Revision date 2018-07-03

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**Address** 

Product name	Katadyn Membrane Preservative
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#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU3] Industrial uses: such as the use of the substance or preparation in industrial sites; [SU0]
	Other; [PC37] Water treatment chemicals;

Description Preservative for RO membrane systems. FOR INDUSTRIAL USE.

Uses Advised Against Anything other than the above.

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

Company	Avista Technologies (UK) Ltd	Distribution: Katadyn Products Inc
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13 Nasmyth SquarePfäffikerstrasse 37Houstoun Industrial Estate8310 KemptthalLivingstonSwitzerland

EH54 5GG United Kingdom

**Telephone** +44 (0)131 449 6677 +41 44 839 21 11 +44 (0)131 449 5500 +44 44 839 21 99

Fax +44 (0)131 449 5599 customerservice@katadyn.ch

Email address of the sds@avistatech.co.uk

1.4. Emergency telephone number

Emergency telephone number +44 (0)131 449 6677 (GMT, English spoken, Mon - Fri; 08.00 - 17.00)

#### **SECTION 2: Hazards identification**

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

2.1.2. Classification - EC	Eye Irrit. 2: H319;
1272/2008	

#### 2.2. Label elements

competent person

### Hazard pictograms



Signal Word Warni

**Hazard Statement** Eye Irrit. 2: H319 - Causes serious eye irritation.

Precautionary Statement: Hands

Prevention

P264 - Wash thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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#### 2.2. Label elements

Precautionary Statement: Response

 ${\tt P305+P351+P338-IF\ IN\ EYES: Rinse\ cautiously\ with\ water\ for\ several\ minutes.\ Remove\ contact}$ 

lenses, if present and easy to do. Continue rinsing.

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

#### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

#### EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. Classification (%w/w)	M-factor.
Citric Acid.		77-92-9	201-069-1	01-2119457026-42	30 - 40% Eye Irrit. 2: H319;	

#### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Self-protection of the first aider	Use appropriate personal protective equipment. Avoid contact with skin and eyes. Ensure adequate ventilation of the working area. Avoid breathing dust/fume/gas/mist/vapours/spray.		
Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.  Move person to fresh air; if effects occur, consult a physician.		
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation or symptoms persist.		
Skin contact	Remove contaminated clothing. Wash off immediately with plenty of soap and water. Seek medical attention if irritation or symptoms persist.		
Ingestion	DO NOT INDUCE VOMITING. Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist.		

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

Inhalation	None known.
Eye contact	Causes serious eye irritation.
Skin contact	None known.
Ingestion	None known.

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

If you feel unwell, seek medical advice (show the label where possible). Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions. EXTINGUISHING MEDIA:. Water spray. Foam. Dry chemical. Carbon dioxide (CO2).

Do NOT use water jet.

#### 5.2. Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes. Burning produces irritating, toxic and obnoxious fumes.

#### 5.3. Advice for firefighters

Wear suitable respiratory equipment when necessary. In case of fire and/or explosion do not breathe fumes.

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure operatives are trained to minimise exposures. Ensure suitable personal protection during removal of spillages. Ensure adequate ventilation of the working area. Wear suitable protective



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6.1. Personal precautions, prote	ective equipment and emergency procedures			
	clothing, gloves and eye/face protection. Avoid contact with skin and eyes.			
6.2. Environmental precautions				
	Do not allow runoff water to enter sewers or drains. Do not empty into drains; dispose of this			
	material and its container in a safe way. Prevent further spillage if safe.			
6.3. Methods and material for co	ontainment and cleaning up			
	Sweep or shovel-up spillage and remove to a safe place. Dry sweeping is not recommended. If necessary, light water spray will reduce dust for dry sweeping, but over-wetting may produce very slipperry walking surfaces. Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.			
6.4. Reference to other sections				
	See section 8 & 13 for further information.			
SECTION 7: Handling and s	torage			
7.1. Precautions for safe handlir				
	Ensure operatives are trained to minimise exposures. Adopt best Manual Handling considerations when handling, carrying and dispensing. Wear suitable protective equipment. Avoid contact with eyes and skin. Do not eat, drink or smoke in areas where this product is used or stored. Use in a well ventilated area. Avoid formation of dust.			
7.2. Conditions for safe storage,	, including any incompatibilities			
	Keep container tightly closed. Bund storage facilities to prevent soil and water pollution in the event of spillage. Keep in a cool, dry, well ventilated area. Store in correctly labelled containers. Keep away from food, drink and animal feedingstuffs.			
Suitable packaging	Plastic containers.			
7.3. Specific end use(s)				
	Water treatment chemicals. See section 1.2 for further information.			
SECTION 8: Exposure contr	ols/personal protection			
8.1. Control parameters	<u> </u>			
Parameter Parame	No data is available on this product.			
DNEL: Derived no-effect level.	The data is available on the product.			
DITEL. BOITOG NO CHOOLICTOI.	Citric acid: Available hazard data do not enable the derivation of a DNEL for eye irritant effects.			
	Citric acid predicted no effect concentration - Aquatic Compartment - PNEC Aqua (Marine water) 0.044 mg/l - PNEC Aqua (freshwater) 0.44 mg/l. STP (Sewage Treatment Plant) - PNEC STP >1000 mg/l.			
8.2. Exposure controls				
8.2.1. Appropriate engineering controls	Ensure operatives are trained to minimise exposures. Ensure adequate ventilation of the working area. Good hygiene practices and housekeeping measures. A washing facility/water for eye skin cleaning purposes should be present.			

### 8.2.2. Individual protection measures

contaminated clothing before reuse. Do no eat, drink or smoke when using this product. Approved safety goggles. (Standard EN 166).

Eye / face protection Skin protection -

Handprotection

Chemical resistant gloves (PVC). (Standard EN374-1). Material of Gloves: Nitrile Rubber NBR; Penetration time of Glove material: Thickness 0.4 mm; break-through time: 480 min: material:

Use appropriate personal protective equipment. Avoid contact with eyes and skin. Wash all

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8.2. Exposure controls

Respiratory protection

Nitrile; permeation: level 6.

Not normally required. In case of insufficient ventilation, wear suitable respiratory equipment.

Suitable half mask respirator with filter P3 (EN 141ABEK1).

#### SECTION 9: Physical and chemical properties

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

Powder Appearance Off white Colour Odour Sliaht 2 - 3 (2% w/w in DI water) pН Melting point Not applicable. Initial boiling point Not applicable. Flash point Not applicable. Evaporation rate Not applicable. Flammability (solid, gas) Not applicable. Autoignition temperature Not applicable. Viscosity No data available **Explosive properties** Not applicable. Oxidising properties Not applicable.

#### 9.2. Other information

Conductivity No data available
Surface tension
Bulk Density

No data available
Not applicable.

0.63 - 0.96 Kg/litre

Miscible in water

Solubility

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

None.

#### 10.4. Conditions to avoid

Keep away from direct sunlight. Keep in a cool, dry, well ventilated area.

### 10.5. Incompatible materials

Avoid contact with: Oxidising agents, Alkalis.

#### 10.6. Hazardous decomposition products

None known

## SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity	No known adverse health effects.
	Based on available data, the classification are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw/day.
Skin corrosion/irritation	Based on available data, the classification are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw/day.

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11.1. Information on toxicologica	al effects
Serious eye damage/irritation	Irritating to eyes.
	Citrio gold: Toot regult: Irritating to over (OECD 405)
Respiratory or skin	Citric acid: Test result: Irritating to eyes. (OECD 405).  Based on available data, the classification criteria are not met. No sensitizaton effects reported.
sensitisation	based on available data, the classification chieffa are not met. No sensitization effects reported.
Germ cell mutagenicity	Based on available data, the classification criteria are not met. No mutagenic effects reported.
Carcinogenicity	Based on available data, the classification criteria are not met. No carcinogenic effects reported.
Reproductive toxicity	Based on available data, the classification criteria are not met. No teratogenic effects reported.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Repeated or prolonged exposure	Avoid contact with eyes and skin. Avoid prolonged or repeated exposure.
SECTION 12: Ecological info	ormation
2.2. Persistence and degradab	ility
	Not readily biodegradable.
2.3. Bioaccumulative potential	
	The product has low potential for bioaccumulation.
2.4. Mobility in soil	•
	The product is predicted to have high mobility in soil. Miscible in water.
2.5. Results of PBT and vPvB	assessment
	The product is predicted to be not classified as PBT or vPvB. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.
12.6. Other adverse effects	
	None known.
SECTION 13: Disposal cons	iderations
3.1. Waste treatment methods	
	Dispose of in compliance with all local and national regulations.
Disposal methods	
	Do not empty into drains; dispose of this material and its container in a safe way. Dispose of in compliance with all local and national regulations.
Disposal of packaging	
	Empty containers can be sent for disposal or recycling. Empty containers can be sent to landfill after cleaning, if in compliance with once the product residues adhering to the walls of the containers have been rendered harmless, the product and hazard labels must be invalidated.
SECTION 14: Transport info	rmation
I4.1. UN number	
	The product is not classified as dangerous for carriage.
4.2. UN proper shipping name	
	The product is not classified as dangerous for carriage.
4.3. Transport hazard class(es	
	The product is not classified as dangerous for carriage.
4.4. Packing group	1



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14.4. Packing group	
	The product is not classified as dangerous for carriage.
14.5. Environmental hazards	
	The product is not classified as dangerous for carriage.
14.6. Special precautions for us	er
	The product is not classified as dangerous for carriage.
14.7. Transport in bulk according	g to Annex II of MARPOL 73/78 and the IBC Code
	The product is not classified as dangerous for carriage.
SECTION 15: Regulatory inf	iormation
	mental regulations/legislation specific for the substance or mixture
Regulations	In accordance with REACH Regulation (EC) No 1907/2006 as last amended with respect to SDS provisions by Commission Regulation (EU) 2015/830.
	None of the substances is included on the candidate list of Substances of Very High Concern for authorisation (Annex XIV) under REACH regulation (EC) No. 1907/2006.
	National regulations - Germany. Water Hazard Class:. 1.
15.2. Chemical safety assessme	ent
	None.
Further information	
	FOR INDUSTRIAL USE.
SECTION 16: Other informa	tion
Other information	
Revision	This document differs from the previous version in the following areas:.
	16 - Data sources.
Data sources	EU Classification: This safety data sheet was prepared in accordance with EC regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.
	Existing ECHA registration for. Citric acid (CAS No. 77-92-9).
	Legend
	LTEL - Long term exposure limit
	STEL - Short term exposure limit
	DNEL - Derived no effect level PNEC - Predicted no effect concentration
	PBT - PBT: Persistent, Bioaccumulative and toxic
	vPvB - vPvT: very persistent and very toxic
	OECD - Organsation of Economic Cooperation and Development.
Text of Hazard Statements in Section 3	Eye Irrit. 2: H319 - Causes serious eye irritation.
General information	T
	Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.
Further information	
	Material safety data sheets in languages other than English may be rewritten partially with the help of translations programs. We unfortunately cannot guarantee the correct translations, errors can sometimes occur, caused through incorrect translating of individual sentences. However the product classifications are correct and in accordance with current regulations. We recommend that

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Further information	
	an English language MSDS is requested to allow for direct comparison.
	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

