

ADDENDUM TO SAFETY DATA SHEET

This addendum to the SDS provides information specifically for the product according to New Zealand's HSNO Code of Practice for Preparation of Safety Data Sheets This addendum should not be detached but read in conjunction with the SDS that follows. It remains integral to the attached SDS.

IDENTIFICATION			
Product Name	ACO		
Other Names / Code			
SDS Date of Issue	21 st May 2019	Addendum Date	7 July 2021
Recommended Use	UV Filters for photo- reduction of chlorine.		

LOCAL CONTACT DETAILS	
Company	The Storage and Distribution Centre NZ
Address	3 Goodman Place, Penrose, Auckland, 1026, NEW ZEALAND
Telephone	+64 9 622 4220
EMERGENCY telephone	DIAL 111. For SPECIALIST advice in an EMERGENCY ONLY phone CHEMCALL – FREE CALL ALL HOURS: 0800 243 622

HEALTH & SAFETY at WORK REGULATIONS	
Hazardous Nature	This material is NOT hazardous according to the Hazardous Substance & New Organism Act HSNO Regulation.
HSNO hazard class and Category	n/a
Signal Word	n/a
Hazard Statements	n/a
Precautionary Statements	n/a
Approval no. or Group Standard	n/a

DANGEROUS GOODS INFORMATION			
This material is NOT a dangerous good for transport (IMDG 2018 Edition)			
DG Class	n/a	UN Number	n/a
Subsidiary Risk	n/a	Packing Group	n/a
Proper Shipping Name	n/a		
Limited Quantity	n/a		
HAZCHEM	n/a		

OTHER INFORMATION	
Poison Schedule (Aust)	This is NOT a POISON according to The Poison Standard (SUSMP)
Poisons Advice Number (NZ)	For advice Call POSION INFORMATION CENTRE 0800 764 766
NZIoC	All ingredients are listed on the New Zealand Inventory of Chemicals.

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

1.1	Product identifier Product Name CAS No. EINECS No.	ACO Mixture Mixture	
1.2	Relevant identified uses of the substance or mixture and uses advised against Identified Use(s) Uses Advised Against	UV filters for photo-Reduction of Chlorine. Anything other than the above.	
1.3	Details of the supplier of the safety data sheet Company Identification Telephone Fax E-Mail (competent person)	Dryden Aqua Ltd Butlerfield Industrial Estate, Bonnyrigg, Edinburgh EH19 3JQ, United Kingdom +44 (0) 18758 22222 +44 (0) 18758 22229 aqua@drydenaqua.com (Graeme McQuarrie)	
1.4	Emergency telephone number Emergency Phone No. Languages spoken	+44 (0) 18758 22222 English	Monday to Thursday: 6:00am – 15:00pm Monday to Friday: 6:00am – 12:00pm (GMT)

SECTION 2: HAZARDS IDENTIFICATION

2.1	Classification of the substance or mixture	Aquatic Chronic 3; H412	
2.1.1	Regulation (EC) No. 1272/2008 (CLP)	Aquatic Chronic 3; H412	
2.2	Label elements Product Name Contains: Hazard Pictogram(s) Signal Word(s) Hazard Statement(s) Precautionary Statement(s) Supplemental information	According to Regulation (EC) No. 1272/2008 (CLP) ACO Not applicable Not applicable Not applicable H412: Harmful to aquatic life with long lasting effects. P264: Wash hands and exposed skin thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P273: Avoid release to the environment. P501: Dispose of contents in accordance with local, state or national legislation. None	
2.3	Other hazards	None known	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable

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3.2 Mixtures Substances in preparations / mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard classification
Sodium chlorite	<1	7758-19-2	231-836-6	01-2119529240-51-xxxx	Ox. Liq. 1; H271 Acute Tox. 3; H301 Acute Tox. 2; H310 Skin Corr. 1; H314 STOT RE 2; H373 Aq. Chronic 1; H410 (M-factor = 1)

For full text of H/P Statements see section 16.

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Self-protection of the first aider

Inhalation

Skin Contact

Eye Contact

Ingestion

No action should be taken involving personal risk. Use personal protective equipment as required. Ensure adequate ventilation. Do not breathe mist/vapours/spray. Avoid contact with skin and eyes.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

IF ON SKIN: Gently wash with plenty of soap and water. If irritation develops and persists, get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

IF SWALLOWED: Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

Unsuitable extinguishing Media

As appropriate for surrounding fire. Water spray, foam, dry powder or CO₂.

Do not use water jet. Direct water jet may spread the fire.

5.2 Special hazards arising from the substance or mixture

Not flammable. None known.

5.3 Advice for fire-fighters

Portable containers should be moved if possible and without risk. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. and Chemical protection suit. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Caution - spillages may be slippery. No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Do not breathe mist/vapours/spray. Avoid contact with skin and eyes. Remove contaminated clothing and wash all affected areas with plenty of water. Move undamaged containers from immediate hazard area if it can be done safely.

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- 6.2 Environmental precautions** Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into soil must be alerted to the appropriate regulatory body.
- 6.3 Methods and material for containment and cleaning up** Small spillages: Allow small spillages to evaporate provided there is adequate ventilation.
- Large spillages: Shut off leaks if without risk. Absorb spillage in suitable inert material. Sweep up and shovel into waste drums or plastic bags. Flush spill area with copious amounts of water.
- 6.4 Reference to other sections** See Also Section: 8, 13.

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Wear suitable protective clothing. Ensure adequate ventilation. Do not breathe mist/vapours/spray. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Remove contaminated clothing and wash clothing before reuse.
- 7.2 Conditions for safe storage, including any incompatibilities** Keep only in original packaging. Keep in a cool, well ventilated place. Store in a dry place. Keep away from heat and direct sunlight.
- Storage temperature Store at room temperature. Do not allow material to freeze.
- Incompatible materials Keep away from oxidising substances. Avoid contact with acids and alkalis.
- 7.3 Specific end use(s)** See Section: 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Titanium dioxide	13463-67-7	-	10	-	-	WEL: Inhalable Aerosol
		-	4	-	-	Respirable Aerosol
sodium hydroxide	1310-73-2	-	-	-	2	WEL

Source: WEL: Workplace Exposure Limit (UK HSE EH40)

- 8.1.2 Biological limit value** Not established.
- 8.1.3 PNECs and DNELs** Not applicable
- 8.2 Exposure controls**
8.2.1 Appropriate engineering controls Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Remove contaminated clothing and gloves and wash before re-use.
- 8.2.2 Individual protection measures, such as personal protective equipment (PPE)** Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier. Use personal protective equipment as required. Take care for general good hygiene and housekeeping. Do not breathe mist/vapours/spray.

Eye/face protection



Wear eye protection with side protection (EN166).

Skin protection

Hand protection: Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

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Respiratory protection

Body protection: Wear dust-resistant protective clothing.



Thermal hazards

In case of inadequate ventilation wear respiratory protection. Recommended: EN143 Type A-P2

Not applicable.

8.2.3 Environmental Exposure Controls

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Odour	None
Odour Threshold	Not established
pH	8.0 – 11.0
Melting Point/Freezing Point	< 0 °C
Initial boiling point and boiling range	101 °C
Flash point	Not established
Evaporation Rate	Not established
Flammability (solid, gas)	Not applicable - Liquid
Upper/lower flammability or explosive limits	Not applicable - Liquid
Vapour pressure	Not established
Vapour density	Not established
Relative density	1.18 – 1.22
Solubility(ies)	Miscible with water.
Partition coefficient: n-octanol/water	Not established
Auto-ignition temperature	Not established
Decomposition Temperature	Not established
Viscosity	60 – 100 cP
Explosive properties	Not explosive
Oxidising properties	Not oxidising

9.2 Other information

None known

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	Hazardous polymerisation will not occur.
10.4	Conditions to avoid	High Temperature, Temperatures below freezing as this may damage the product.
10.5	Incompatible materials	Keep away from oxidising substances. Avoid contact with acids and alkalis.
10.6	Hazardous decomposition product(s)	Combustion products: chlorine compounds

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	
	Acute toxicity - Ingestion	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE): LD50: >2,000 mg/kg.
	Acute toxicity - Inhalation	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE): LD50: >2,000 mg/kg.
	Acute toxicity - Skin Contact	Mixture: Based upon the available data, the classification criteria are not met.

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Skin corrosion/irritation
Serious eye damage/irritation
Respiratory or skin sensitization
Germ cell mutagenicity
Carcinogenicity
Titanium dioxide

Calculated acute toxicity estimate (ATE): LC50 (inhalation) mg/l/4h: > 5 mg/l (Dust)

Mixture: Based upon the available data, the classification criteria are not met.

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Titanium dioxide is listed by IARC as a Group 2B substance (possibly carcinogenic to humans), however, IARC monographs Vol. 93 states that exposure levels are assumed to be lower in the user industries, with the possible exception of workers who handle large quantities of titanium dioxide. Titanium dioxide in this mixture is mostly in a bound form. Therefore no significant exposure to titanium dioxide is thought to occur during the use of this product.

Mixture: Based upon the available data, the classification criteria are not met.

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Mixture: Based upon the available data, the classification criteria are not met.

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard

11.2 Other information

None.

SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity Sodium chlorite	Aquatic Chronic 3; Harmful to aquatic life with long lasting effects. Estimated LC50 (96 hour) Fish > 10 mg/l ≤ 100 mg/l Aquatic Chronic 1; H410 Acute: LC50 (fish) mg/l (96 hour) 105 (EPA OPP 72-1) Chronic: EC50 (Daphnia magna) mg/l (22 days) 0.085 (OECD 211)
12.2	Persistence and degradability Sodium chlorite	No data for the mixture as a whole.
12.3	Bioaccumulative potential Sodium chlorite	Not applicable for inorganic substances No data for the mixture as a whole.
12.4	Mobility in soil Sodium chlorite	The substance has low potential for bioaccumulation. Log Kow ≤ 3 No data for the mixture as a whole. The substance has low mobility in soil.
12.5	Results of PBT and VPvB assessment	Log Kow ≤ 3 Not classified as PBT or vPvB.
12.6	Other adverse effects	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	Do not allow to enter drains, sewers or watercourses. Dispose of wastes in an approved waste disposal facility. Disposal should be in accordance with local, state or national legislation. Recover or recycle if possible.
13.2	Additional Information	None known.

SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

	ADR/RID	IMDG	IATA/ICAO
14.1 UN number	Not classified	Not classified	Not classified
14.2 UN proper shipping name	Not classified	Not classified	Not classified
14.3 Transport hazard class(es)	Not classified	Not classified	Not classified
14.4 Packing group	Not classified	Not classified	Not classified
14.5 Environmental hazards	Not classified	Not classified	Not classified
14.6 Special precautions for user	See Section: 2	Not classified	Not classified
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable		

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SECTION 15: REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- 15.1.1 EU regulations**
Authorisations and/or Restrictions On Use Not restricted
- 15.1.2 National regulations**
Wassergefährdungsklasse (Germany) Water hazard class: 2 (Self classification)
- 15.2 Chemical Safety Assessment**
A chemical safety assessment is not required under REACH.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

Sections indicated with the following have been revised

Date of Issue: 21st May 2019
Date of First Issue: 21st August 2014

References:

Existing ECHA registration for Sodium chlorite (CAS No. 7758-19-2).

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification Procedure
Aquatic Chronic 3; H412	Summation Calculation

LEGEND

LTEL: Long Term Exposure Limit

DNEL: Derived No Effect Level

PBT: Persistent, Bioaccumulative and Toxic

STEL: Short Term Exposure Limit

PNEC: Predicted No Effect Concentration

vPvB: very Persistent and very Bioaccumulative

Hazard classification / Classification code:

Ox. Liq. 2; Oxidising liquid, Category 2

Acute Tox. 3; Acute toxicity, Category 3

Acute Tox. 2; Acute toxicity, Category 2

Skin Corr. 1; Skin corrosion/irritation, Category 1

STOT RE 2; Specific target organ toxicity — repeated exposure, Category 2

Aquatic Chronic 1; Hazardous to the aquatic environment, Chronic, Category 1

Aquatic Chronic 3; Hazardous to the aquatic environment, Chronic, Category 3

Hazard Statement(s)

H271: May cause fire or explosion; strong oxidiser.

H301: Toxic if swallowed.

H310: Fatal in contact with skin.

H314: Causes severe skin burns and eye damage.

H373: May cause damage to organs through prolonged or repeated exposure.

H410: Very toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

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.

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