# Dryden Aqua Ltd SAFETY DATA SHEET

# 1. Identification

1. Identification	
Product identifier	ACO
Other means of identification	Not available.
Recommended use	Acts as a UV filter to prevent the photo-reduction of chlorine.
Recommended restrictions	This product should only be used for the use described above. No other uses are advised.
Manufacturer/Importer/Supplier/	Distributor information
Manufacturer	
Company name	Dryden Aqua Ltd
Address	Butlerfield Industrial Estate
	Bonnyrigg Edinburgh EH19 3JQ
	Great Britain
Telephone	+44 (0) 18758 22222
	Fax: +44 (0) 18758 22229
Website E-mail	www.drydenaqua.com aqua@drydenaqua.com
Contact person	Christi Ashley-Sing
Emergency phone number	+44 (0) 18758 22222
2. Hazard(s) identification	
Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

# 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Sodium Chlorite		7758-19-2	< 1
Inorganic metal oxide*		Proprietary*	< 0.1

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

Inhalation	Call a physician if symptoms develop or persist.
Skin contact	Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	None known.

Indication of immediate medical attention and special treatment needed General information Treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	This product is an aqueous mixture which will not burn.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Use standard firefighting procedures and consider the hazards of other involved materials.
Specific methods	Move container from fire area if it can be done without risk.
General fire hazards	No unusual fire or explosion hazards noted. Non-combustible, substance itself does not burn.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling	Avoid prolonged exposure. Observe good industrial hygiene practices.
Conditions for safe storage,	Do not allow material to freeze. Keep in a cool, well-ventilated place. Store in original tightly closed
including any incompatibilities	container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Provide adequate general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures,	such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.
Other	Normal work clothing (long sleeved shirts and long pants) is recommended. Wear protective gloves.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Thermal hazards	Not available.
General hygiene considerations	Do not get in eyes. Wash hands before breaks and immediately after handling the product.

# 9. Physical and chemical properties

### Appearance

Physical state	Liquid.
Form	Aqueous solution.
Color	Colorless.
Odor	Odorless.
Odor threshold	Not applicable
рН	8.0 - 11.0
Melting point/freezing point	< 32 °F (< 0 °C)
Initial boiling point and boiling range	213.8 °F (101 °C)
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not applicable
Flammability limit - upper (%)	Not applicable
Explosive limit - lower (%)	Not applicable
Explosive limit - upper (%)	Not applicable
Vapor pressure	Not applicable
Vapor density	Not applicable
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Miscible
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Viscosity	60 - 100 cP
Other information	
Density	1.18 - 1.22 g/cm³
Percent volatile	98.1 % estimated
Specific gravity	1.18 - 1.22
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid high temperatures. Contact with incompatible materials. Do not freeze.
Incompatible materials	Avoid contact with acids and alkalies. Strong oxidizing agents. This product may react with metals
Hazardous decomposition products	Chlorine compounds.

# 11. Toxicological information

Information on likely re	outes of exposure
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Inhalation	Prolonged inhalation may be harmful.
Skin contact	Not available.
Eye contact	Not available.
Ingestion	Not available.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

# Information on toxicological effects

Acute toxicity

Product	Species		Test Results	
ACO (CAS Mixture)				
Acute				
Dermal				
LD50	Rabbit		> 5000 mg/kg Calculated	
Oral				
LD50	Rat		> 5000 mg/kg Calculated	
Components	Species		Test Results	
Sodium Chlorite (CAS 7758-19-2	)			
Acute				
<i>Dermal</i> LD50	Rabbit		> 2000 mg/kg 24 hours 21% pasts	
LDOU	Rabbit		> 2000 mg/kg, 24 hours 31% paste, semi-occlusive	
			134 mg/kg 80% powder, EPA OPP 81-2 (Acute Dermal Toxicity)	
Oral				
LD50	Rat		284 mg/kg	
* Entimates for an dust and		al company data and the		
* Estimates for product may	Not available.	al component data not shown.		
		aques slight irritation to the over	a. Not clossified	
erious eye damage/eye rritation		This product may cause slight irritation to the eyes. Not classified.		
Respiratory or skin sensitization				
Respiratory sensitization	Not available.	ated contact can recult in data		
Skin sensitization	Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Not classified.			
Germ cell mutagenicity	mutagenic or g	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.			
IARC Monographs. Overall		• •		
Inorganic metal oxide (C Sodium Chlorite (CAS 7 OSHA Specifically Regulat	758-19-2)	3 Not classifiable	inogenic to humans. as to carcinogenicity to humans.	
Not listed.				
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.			
pecific target organ toxicity - ingle exposure	Not classified.			
Specific target organ toxicity - epeated exposure	Not classified.	Not classified.		
spiration hazard	Not available.	Not available.		
chronic effects	Prolonged inhalation may be harmful.			
12. Ecological informatio	n			
Ecotoxicity		The product is 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.		
Components		pecies	Test Results	
Sodium Chlorite (CAS 7758- Aquatic	19-2)			
-	EC50	gae	1 mg/l, 96 hours	
Algae				
Algae Crustacea	EC50	aphnia	< 1 mg/l, 48 hours	

Persistence and degradability	The product solely consists of inorganic compounds which are not biodegradable.
Bioaccumulative potential	Does not bioaccumulate.
Mobility in soil	No data available.
Mobility in general	The product is miscible with water. May spread in water systems.
Other adverse effects	Not expected to be harmful to aquatic organisms.

Material name: ACO

## 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Material should be recycled if possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Dispose of in accordance with local regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Where possible recycling is preferred to disposal or incineration.

## 14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to<br/>Annex II of MARPOL 73/78 and<br/>the IBC CodeThis substance/mixture is not intended to be transported in bulk.

### 15. Regulatory information

**US** federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Hazard categories** 

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA) US state regulations

WARNING: This product contains a chemical known to the State of California to cause cancer.

# US - Massachusetts RTK - Substance: Listed substance

Inorganic metal oxide (CAS Proprietary)

Sodium Chlorite (CAS 7758-19-2)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.

#### US. New Jersey Worker and Community Right-to-Know Act

Inorganic metal oxide (CAS Proprietary) Sodium Chlorite (CAS 7758-19-2)

US. Pennsylvania Worker and Community Right-to-Know Law

Inorganic metal oxide (CAS Proprietary) Sodium Chlorite (CAS 7758-19-2)

#### US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Inorganic metal oxide (CAS Proprietary)	Listed: September 2, 2011
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International Inventories

Country(s) or region	Inventory name On invent	ory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
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A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

# 16. Other information, including date of preparation or last revision

Issue date	Aug-21-2014
Revision date	Jul-23-2015
Version #	03
Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available. MANUFACTURER DISCLAIMER: The information given within this SDS is correct to the best of our knowledge, information and belief at the date of its revision and publication. However, the manufacturer makes no representation, warranty or guarantee as to its accuracy, reliability or completeness, nor assumes any liability for its use. It is the user's responsibility to confirm in advance that the information is current, applicable and suitable to their circumstances for each particular use. No representative of ours has authority to waive this provision. Please call for document accuracy if the revision date has exceeded 3 years.
Revision Information	Product and Company Identification: Product and Company Identification Composition / Information on Ingredients: Ingredients Accidental release measures: Methods and materials for containment and cleaning up Physical and chemical properties: Color Stability and reactivity: Conditions to avoid Stability and reactivity: Hazardous decomposition products Stability and reactivity: Incompatible materials Toxicological Information: Toxicological Data Disposal considerations: Contaminated packaging Other information, including date of preparation or last revision: Disclaimer Other information, including date of preparation or last revision: Further information Other information, including date of preparation or last revision: List of abbreviations GHS: Classification