

SAFETY DATA SHEET

Dryden Aqua



Date of Issue: 10 May 2022
Date of First Issue: 24 April 2020
Version: 4.0

ACCORDING TO OSHA HCS (29 CFR 1910.1200)

ACO

SECTION 1: IDENTIFICATION

Product identifier

Product Name ACO

Other Means of Identification

Product code 20020, 20021 & 20022

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) UV filters for photo-Reduction of Chlorine.
Uses Advised Against Anything other than the above.

Details of the supplier of the safety data sheet

Supplier Dryden Aqua Ltd
Butlerfield Industrial Estate,
Bonnyrigg,
Edinburgh EH19 3JQ,
United Kingdom
Telephone +44 (0) 18758 22222
Fax +44 (0) 18758 22229
E-Mail (competent person) Agnieszka@drydenaqua.com (Agnieszka Szewczyk)

Emergency telephone number

Emergency Phone No. +44 (0) 1978 528459 24/7
CHEMTREC

Languages spoken English

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200

Physical hazards Not classified as hazardous for supply/use.
Health hazards Not classified as hazardous for supply/use.
Environmental hazards Hazardous to the aquatic environment, Acute, Category 3

Label elements

Hazard Pictogram(s) None assigned
Signal Word(s) None assigned
Hazard Statement(s) Harmful to aquatic life.
Precautionary Statement(s) Avoid release to the environment.
Dispose of contents in accordance with local, state or national legislation.

Other hazards

None known

Percent of the mixture consists of ingredient(s) of unknown acute toxicity:

0% of the mixture consists of ingredients of unknown acute inhaled toxicity.
0% of the mixture consists of ingredients of unknown acute oral toxicity.
0% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not applicable

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Mixtures Substances in preparations / mixtures

Classification: OSHA HCS (29 CFR 1910.1200)

Chemical identity of the substance	%W/W	CAS No.	EC No.	Hazard classification
Sodium chlorite	≥0.25 - <1	7758-19-2	231-836-6	Oxidising liquid, Category 1 Acute toxicity, Category 3, Oral Acute toxicity, Category 2, Dermal Skin corrosion/irritation, Category 1 Specific target organ toxicity — repeated exposure, Category 2 Hazardous to the aquatic environment, acute, Category 1 Hazardous to the aquatic environment, Chronic , Category 1 (M-factor = 1)

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Self-protection of the first aider

Inhalation

Skin Contact

Eye Contact

Ingestion

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

No action should be taken involving personal risk. Use personal protective equipment as required. Ensure adequate ventilation. Avoid breathing vapours. Avoid contact with skin and eyes.

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

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.

None Known

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Unsuitable extinguishing Media

Special hazards arising from the substance or mixture

Advice for fire-fighters

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

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

Not flammable. None known.

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

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Caution - spillages may be slippery. No action should be taken involving personal risk. No action should be taken involving personal risk. Wear suitable protective clothing. Ensure adequate ventilation. Avoid breathing vapours. Avoid contact with skin and eyes. Avoid release to the environment.

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. Ventilate the area and wash spill site after material pick-up is complete. Flush spill area with copious amounts of water.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Wear suitable protective clothing. Ensure adequate ventilation. Avoid breathing vapours. Do not eat, drink or smoke when using this product. Remove contaminated clothing and wash clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage temperature
Incompatible materials

Keep only in original packaging. Keep in a cool, well ventilated place. Store in a dry place. Keep away from heat and direct sunlight.

Store at room temperature. Do not allow material to freeze.

Keep away from oxidising substances. Avoid contact with acids and alkalis. Keep away from: Wood, Rubber, Aluminium, Copper and Alloys.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

No substance specific National Institute for Occupational Safety and Health (NIOSH) Recommended exposure limits (RELs)

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	-	15	-	-		OSHA
		-	10	-	-	A4	ACGIH

Notes:

A4: Not classified as a human carcinogen

Source:

NIOSH: National Institute for Occupational Safety and Health (NIOSH) Recommended exposure limits (RELs)

OSHA Permissible Exposure Limit (PEL): Occupational Safety and Health Standards, 1910.1000 TABLE Z-1

ACGIH: American Conference of Governmental Industrial Hygienists - Threshold limit values (TLV) 2017s

Biological exposure indices

Not established.

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.

Individual protection measures, such as personal protective equipment (PPE)

Use personal protective equipment as required. Take care for general good hygiene and housekeeping. Avoid breathing vapours. Do not eat, drink or smoke at the work place.

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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.

Eye/face protection



Wear eye protection with side protection ((Recommended: 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. Suitable materials for this product are: PVC, nitrile rubber or Polychloroprene - CR.

Body protection: Wear work clothes with long sleeves.

Respiratory protection



Not normally required. In case of inadequate ventilation wear respiratory protection. Wear a full face respirator conforming to EN136 with Type A filter or better. Recommended: EN143 Type A-P2

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Colourless Liquid
Odor	Odourless
Odor Threshold	Not established
pH	10.5 – 11.2
Melting Point/Freezing Point	Not established
Initial boiling point and boiling range	Not established
Flash Point	Not established
Evaporation Rate	Not established
Flammability (solid, gas)	Not applicable - Liquid
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	Not established
Vapour density	Not established
Relative density	Not established
Solubility(ies)	Miscible with water.
Partition coefficient: n-octanol/water	Not established
Auto-ignition temperature	Not established
Decomposition Temperature	Not established
Viscosity	Not established

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerisation will not occur.
Conditions to avoid	High Temperature, Temperatures below freezing as this may damage the product.
Incompatible materials	Keep away from oxidising substances. Avoid contact with acids and alkalis. Keep away from: Wood, Rubber, Aluminium, Copper and Alloys.
Hazardous decomposition product(s)	None Known

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SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity - Ingestion

Mixture: Based upon the available data, the classification criteria are not met.
Calculated acute toxicity estimate (ATE) >2,000 mg/kg.

Acute toxicity - Skin Contact

Mixture: Based upon the available data, the classification criteria are not met.
Calculated acute toxicity estimate (ATE) >2,000 mg/kg.

Acute toxicity - Inhalation

Mixture: Based upon the available data, the classification criteria are not met.
Calculated acute toxicity estimate (ATE) > 5 mg/l

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Respiratory or skin sensitization

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT - single exposure

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

STOT - repeated exposure

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

Aspiration hazard

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

Information on likely routes of exposure

Inhalation

Possible – accidental exposure

Ingestion

Possible – accidental exposure

Skin Contact

Possible – accidental exposure

Eye Contact

Unlikely – accidental exposure

Early onset symptoms related to exposure

None known

Delayed health effects from exposure

None known

Exposure levels and health effects

See Section: 8

Interactive effects

Other information

OSHA Designated Carcinogen

No components of the mixture are listed

NIOSH Occupational Carcinogen List

Titanium dioxide

NTP Report on Carcinogens

No components of the mixture are listed

IARC Monographs

Titanium dioxide – IARC Classification: Group 2B.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Mixture: Hazardous to the aquatic environment, Acute, Category 3
Estimated LC50 (96 hour) Fish > 10 mg/l ≤ 100 mg/l

Sodium chlorite 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)

Persistence and degradability

No data for the mixture as a whole.

Sodium chlorite Not applicable for inorganic substances

No data for the mixture as a whole.

Bioaccumulative potential

Sodium chlorite The substance has low potential for bioaccumulation.

Log Kow ≤ 3

Mobility in soil

No data for the mixture as a whole.

Sodium chlorite The substance has low mobility in soil.

Log Kow ≤ 3

Other adverse effects

[Click or tap here to enter text.](#) None Known

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SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of wastes in an approved waste disposal facility. Avoid release to the environment. Recover or recycle if possible. Dilute with a large volume of water. Disposal should be in accordance with local, state or national legislation. Recover or recycle if possible.

SECTION 14: TRANSPORT INFORMATION

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

	Road/Rail (ADR/RID)	Sea transport (IMDG)	Air (ICAO/IATA)
UN number	Not classified as dangerous for transport.	Not classified as dangerous for transport.	Not classified as dangerous for transport.
UN proper shipping name	Not classified	Not classified	Not classified
Transport hazard class(es)	Not classified	Not classified	Not classified
Packing group	Not classified	Not classified	Not classified
Environmental hazards	Not classified	Not classified as a Marine Pollutant.	Not classified
Special precautions for user	See Section: 2		
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable		
Additional Information	None		

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

US Federal Regulations

TSCA Chemical Data Reporting (CDR) Rule	Titanium dioxide, Silicic acid, sodium salt, Sodium Chlorite, - Subject to 25,000lb reporting threshold
NIOSH Occupational Carcinogen List	Titanium dioxide
EPCRA Section 313	No components of the mixture are listed
CWA 307- Toxic	No components of the mixture are listed
CERCLA - Hazardous Substances	No components of the mixture are listed
CWA Section 311 List of Hazardous Substances	No components of the mixture are listed

US State Regulations

Proposition 65 (California)	Titanium dioxide - airborne, unbound particles of respirable size
Massachusetts, New Jersey, Pennsylvania, Rhode Island- State Right to Know Lists	Titanium dioxide - MSL, RTKHSL
New York -State Right to Know Lists	Sodium Chlorite – RTKHSL
Minnesota - State Right to Know Lists	Titanium dioxide- Hazardous Substance List - TRQ = 100 lbs
Massachusetts – Toxic Use reduction act	Titanium dioxide – CHC
	No components of the mixture are listed

Non-Regional

IARC Monographs	Titanium dioxide - IARC Classification: Group 2B.
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SECTION 16: OTHER INFORMATION

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This Safety Data Sheet was prepared in accordance with US Regulation OSHA HCS (29 CFR 1910.1200)

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Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200	Classification Procedure
Hazardous to the aquatic environment, Chronic, Category 3	Summation Calculation

LEGEND

ADR/RID	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road / RID: Regulations concerning the international railway transport of dangerous goods
BCF	Bioconcentration factor (BCF)
CAS	CAS: Chemical Abstracts Service
DNEL	Derived No Effect Level
EC	EC: European Community
EU	European Union
IATA	IATA: International Air Transport Association
ICAO/IATA	ICAO: International Civil Aviation Organization / IATA: International Air Transport Association
IMDG	IMDG: International Maritime Dangerous Goods
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
UN	United Nations
vPvB	very Persistent and very Bioaccumulative

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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