Dryden Aqua

ACCORDING TO OSHA HCS (29 CFR 1910.1200)



Date of Issue: 18th May 2023 Date of First Issue: 20th March 2020 Version: V2.1

APF Pools

SECTION 1: IDENTIFICATION Product identifier APF Pools Product Name Other Means of Identification Product code 20011, 20011-BD & 20019 Product type Mixture Relevant identified uses of the substance or mixture and uses advised against Identified Use(s) Multi-spectrum flocculant and coagulant 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 hour 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 Health hazards Environmental hazards

Label elements Hazard Pictogram(s)

Signal Word(s) Hazard Statement(s)

Precautionary Statement(s)

Metal corrosive, Category 1 Eye Damage, Category 1 Aquatic Chronic, Category 3



DANGER May be corrosive to metals. Causes serious eye damage. Harmful to aquatic life with long lasting effects. Keep only in original packaging. Avoid release to the environment. Wear protective gloves/protective clothing and eye/face protection. Immediately call a POISON CENTER/doctor. Absorb spillage to prevent material damage. Store in a corrosion-resistant container with a resistant inner liner.

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IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Dispose of contents/container to an appropriate recycling or disposal facility. None known

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

0% of the mixture consists of ingredients of unknown acute inhalated 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

Other hazards

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
Aluminium Chlorida	2 6	2 0 4227 44 0		Metal corrosive, Category 1
Aluminium Chloride	3 - 6	1327-41-9	215-477-2	Eye Damage, Category 1
				Metal corrosive, Category 1
				Eye Damage, Category 1 Skin
				sensitisation, category 1
Lanthanum(III) chloride hydrate	3 - <25	20211-76-1	233-237-5	Aquatic Chronic, Category 2
				Specific Concentration Limit
				Skin sensitisation, category
				1: >= 10%
Aluminium Hydroxychloride	1 - <5	12042-91-0	234-933-1	Metal corrosive, Category 1
2-Propen-1-aminium, N,N-dimethyl-N-2- propen-1-yl-, chloride (1:1), homopolymer	1 - <2.5	26062-79-3	607-855-4	Aquatic Chronic, Category 3

SECTION 4: FIRST AID MEASURES



Description of first aid measures	
Self-protection of the first aider	No action should be taken involving personal risk. Use personal protective equipment as required. Ensure adequate ventilation. Avoid breathing vapours. Avoid all contact. Contaminated clothing should be laundered before reuse.
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin Contact	IF ON SKIN: Gently wash with plenty of soap and water. If irritation develops and persists, get medical attention.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
Ingestion	IF SWALLOWED: Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting. May cause damage to the digestive tract if swallowed. Seek medical treatment.
Most important symptoms and effects, both acute and delayed	Causes serious eye damage.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

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IF IN EYES: Treatment by an ophthalmologist due to possible caustic burn of the Notes to a physician: eyes may be required.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media Suitable Extinguishing Media	Use fire-extinguishing media appropriate for surrounding materials
Unsuitable extinguishing Media	Do not use water jet. Direct water jet may spread the fire.
Special hazards arising from the substance or mixture	This product is an aqueous mixture which will not burn.
Advice for fire-fighters	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. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.
SECTION 6: ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and emergency procedures	No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Avoid breathing vapours. Avoid all contact. Remove contaminated clothing and wash all affected areas with plenty of water.
Methods and material for containment and cleaning up	Stop leak if safe to do so. Wipe up with absorbent material (eg. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. Ventilate the area and wash spill site after material pick-up is complete.
SECTION 7: HANDLING AND STORAGE	

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Precautions for safe handling

When using do not eat or drink. Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Avoid all contact. Do not ingest. Wear protective gloves/eye protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

Conditions for safe storage, including any incompatibilities

Storage temperature Incompatible materials Keep only in original packaging. Keep in a well ventilated place. Keep container closed. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Keep from direct sunlight. Stable at ambient temperatures.

Avoid contact with acids and alkalis. Strong oxidising agents. This product may react with metals. Non acid-proof metals, Bases, Unalloyed steel, Galvanized surfaces.

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/m³)	STEL (ppm)	STEL (mg/m³)	Note
Titanium dioxide	13463-67-7	-	10	-	-	ACGIH, A4
	13403-07-7	-	15	-	-	OSHA

Source: ACGIH: American Conference of Governmental Industrial Hygienists - Threshold limit values (TLV) 2017 OSHA Permissible Exposure Limit (PEL): Occupational Safety and Health Standards, 1910.1000 TABLE Z-1

Notes:

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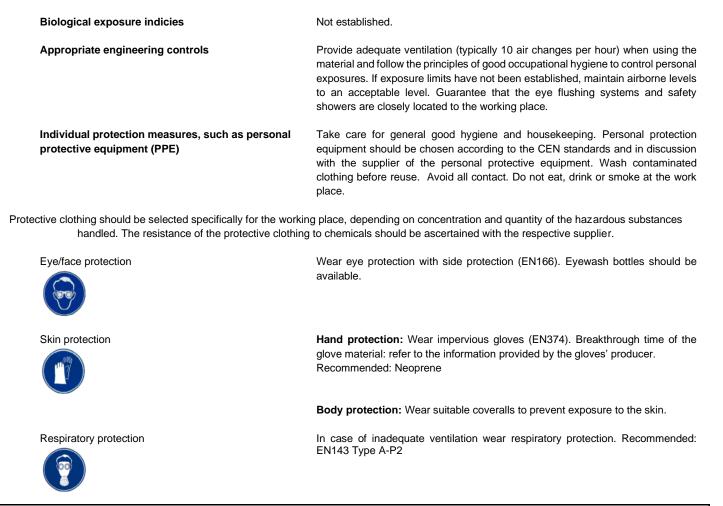
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A4: Not Classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of the lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properti	ies
Appearance	Blue liquid
Odour	Odourless
Odour threshold	Not available
рН	3.0 - 4.0
Melting Point/Freezing Point	< -3 °C (< 26.6 °F)
Initial boiling point and boiling range	102 °C (215.6 °F)
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not available
Vapour pressure	Not applicable
Vapour density	Not available
Relative density	1.10 - 1.30 g/cm ³

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APF Pools Water: miscible

Not available Not available

Not available

Other: Not available

60 - 100 cP @ 25°C

1.10 - 1.30 g/cm³

85.2 % estimated

1.05 – 1.25

Not explosive

Not oxidising

Solubility(ies)

Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition Temperature Viscosity

Other information

Density (g/cm³) Percent Volatile (%): Specific Gravity Explosive properties Oxidising properties

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	Avoid prolonged storage at elevated temperature. Keep from direct sunlight. Do not freeze. Keep away from incompatible materials.
Incompatible materials	Avoid contact with acids and alkalis. Strong oxidising agents. This product may react with metals.Non acid-proof metals, Bases, Unalloyed steel, Galvanized surfaces
Hazardous decomposition product(s)	None known.

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) >20 mg/L (air) (Vapour)
Acute toxicity - Inhalation	Mixture: Based upon the available data, the classification criteria are not met.
	Calculated acute toxicity estimate (ATE) > 2,000 mg/kg.
Skin corrosion/irritation	Mixture: Based upon the available data, the classification criteria are not met.
Serious eye damage/irritation	Mixture: Eye Dam. 1; Causes serious eye damage.
Aluminium Chloride	Eye Dam. 1; H318: Causes serious eye damage.
Aluminium Chionde	Causes serious eye damage. (rabbit) (OECD 405)
Lanthanum(III) chloride hydrate	Eye Dam. 1; H318; Causes serious eye damage.
Lanthanum(m) chionue hydrate	Causes serious eye damage. (rabbit) (OECD 405) (Aqueous solution: pH 3.1)
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	Unlikely – accidental exposure
Ingestion	Unlikely – accidental exposure
Skin Contact	Possible – accidental exposure
Eye Contact	Unlikely – accidental exposure

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AF	APF Pools			
Early onset symptoms related to exposure	Click or tap here to enter text. Causes serious eye damage.			
Delayed health effects from exposure	None anticipated			
Exposure levels and health effects	See Section: 8			
Interactive effects	None Known			
Other information OSHA Designated Carcinogen NIOSH Occupational Carcinogen List NTP Report on Carcinogens IARC Monographs	All chemicals are not listed All chemicals are not listed All chemicals are not listed Titanium dioxide; Group 2B Brilliant Blue FCF, disodium salt; Group 3			
SECTION 12: ECOLOGICAL INFORMATION				
Ecotoxicity	Mixture: Aquatic Chronic, Category 3; Harmful to aquatic life with long lasting effects. Estimated LC50 (Mixture): > 10 to \leq 100 mg/l. Aquatic Chronic 2; H411: Toxic to aquatic life with long lasting effects.			
	NOEC (21d); 0.46 mg/L Cyprinus carpio (Common Carp) (OECD 204) Reference: ECHA registration dossier			
	Aquatic Chronic, Category 3; Harmful to aquatic life with long lasting effects. Reference: EU classification and labelling inventory (512 Notifiers)			
	The product contains inorganic compounds which are not biodegradable. The other components of the product are slowly biodegradable. Not applicable for inorganic substances.			
2-Propen-1-aminium, N,N-dimethyl-N-2-propen-1-yl- chloride (1:1), homopolyme	r			
	The product has low potential for bioaccumulation. No information available.			
2-Propen-1-aminium, N,N-dimethyl-N-2-propen-1-yl- chloride (1:1), homopolymer Lanthanum(III) chloride hydrate	r			
Mobility in soil	The product is miscible with water. May spread in water systems. No information available.			
2-Propen-1-aminium, N,N-dimethyl-N-2-propen-1-yl-, chloride (1:1), homopolyme	No information available.			
Lanthanum(III) chloride hydrate	Log Koc; 5.67 - 6.92 Source; ECHA registration dossier			
Other adverse effects	None			

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Dispose of wastes in an approved waste disposal facility. Recover or recycle if possible.

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SECTION 14: TRANSPORT INFORMATION

UN number UN proper shipping name Transport hazard class(es) Packing group Environmental hazards	Road/Rail (ADR/RID) UN 2581 Aluminium Chloride Solution 8 III Not classified	Sea transport (IMDG) UN 2581 Aluminium Chloride Solution 8 III Not classified as a Marine Pollutant.	Air (ICAO/IATA) UN 2581 Aluminium Chloride Solution 8 III Not classified	
Special precautions for user Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Additional Information	See Section: 2 Not applicable 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	Aluminium Chloride; Restricted (subject to 25,000 lb reporting threshold)
	Aluminium Hydroxychloride; Restricted (subject to 25,000 lb reporting threshold)
	Titanium dioxide; Restricted (subject to 25,000 lb reporting threshold)
	Brilliant Blue FCF, disodium salt; Restricted (subject to 25,000 lb reporting
	threshold)
NIOSH Occupational Carcinogen List	Titanium dioxide; Restricted
EPCRA Section 313	Not restricted
CWA 307- Toxic	Not restricted
CERCLA - Hazardous Substances	Not restricted
CWA Section 311 List of Hazardous Substances	Not restricted
US State Regulations	
Proposition 65 (California)	Titanium dioxide; Restricted (airborne, unbound particles of respirable size)
California State - Hazardous substances information and training Act	Brilliant Blue FCF, disodium salt; Yes (Hazardous Substances List)
Massachusetts, New Jersey, Pennsylvania, Rhode	Titanium dioxide; Restricted
Island- State Right to Know Lists	Brilliant Blue FCF, disodium salt; Restricted
New York -State Right to Know Lists	Titanium dioxide; Restricted
	Brilliant Blue FCF, disodium salt; Restricted
Minnesota - State Right to Know Lists	Titanium dioxide; Hazardous substance
Massachusetts – Toxic Use reduction act	Not restricted
Non-Regional	
IARC Monographs	Titanium dioxide; Group 2B
	Brilliant Blue FCF, disodium salt; Group 3
SECTION 16: OTHER INFORMATION	

The following sections contain revisions or new statements: Updated S3.2, S14.5. Updated version and date. Please review SDS with care.

Sections indicated with the following have been revised:

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Revision Date	18 th May 2023
Date of First Issue	20 th March 2020

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

References:

Existing ECHA registration(s) for Aluminium chloride (CAS No. 1327-41-9), Lanthanum(III) chloride hydrate (CAS No. 20211-76-1), and Dialuminium Chloride Pentahydroxide (CAS No. 12042-91-0).

EU classification and labelling inventory for 2-Propen-1-aminium, N,N-dimethyl-N-2-propen-1-yl-, chloride (1:1), homopolymer (CAS No. 26062-79-3)

Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200	Classification Procedure
Metal corrosive, Category 1	Expert judgement
Eye Damage, Category 1	Threshold Calculation
Aquatic Chronic, Category 3	Threshold 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.

Disclaimers

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