

APF Pools

SECTION 1: IDENTIFICATION

Product identifier used on the label

Product Name

APF Pools

Other means of identification

CAS No.

Mixture

EINECS No.

Mixture

Recommended use of the chemical and restrictions on use

Recommended use

Multi-spectrum flocculant and coagulant

Restrictions on use

Anything other than the above.

Details of the supplier of the safety data sheet

Company Identification

Dryden Aqua Ltd
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24 hour

Languages spoken

English

SECTION 2: HAZARDS 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

Not classified as hazardous for supply/use.

Label elements

Product Name

APF Pools

Hazard Pictogram(s)

None assigned

Signal Word(s)

None assigned

Hazard Statement(s)

None assigned

Precautionary Statement(s)

None assigned

Supplemental information

None known

Other hazards

None known

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

0%

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not applicable

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Mixtures

Classification: OSHA HCS (29 CFR 1910.1200)

Chemical identity of the substance	%W/W	Synonym(s)	CAS No.	EC No.	Hazard classification
Aluminium Chloride	<10	Poly aluminium chloride (PAC)	1327-41-9	215-477-2	Eye Irritation, Category 2
Aluminium Hydroxychloride	<5	Dialuminium chloride pentahydroxide	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	<2.5	DIALLYLDIMETHYLAMMONIUM CHLORIDE POLYMER	26062-79-3	607-855-4	Hazardous to the aquatic environment, Chronic, Category 3
Lanthanum(III) chloride hydrate	<1	None known.	20211-76-1	233-237-5	Metal Corrosive, Category 1 Skin sensitisation, category 1 Eye damage, category 1 Hazardous to the aquatic environment, Chronic, Category 2 Specific Concentration Limit Skin sensitisation, category 1: >= 10%
Acid Blue 009	<0.01	Dihydrogen (ethyl)[4-[4-[ethyl(3-sulphonatobenzyl)]amino]-2'-sulphonatobenzhydrylidene]cyclohexa-2,5-dien-1-ylidene](3-sulphonatobenzyl)ammonium, disodium salt	3844-45-9	223-339-8	Not classified as Hazardous
Titanium Dioxide	<0.01	Diooxotitanium, TiO ₂	13463-67-7	236-675-5	Not classified as Hazardous

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Self-protection of the first aider

Inhalation

Skin Contact

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: 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.

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Eye Contact	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.
Ingestion	IF SWALLOWED: Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting. Seek medical treatment.
Most important symptoms and effects, both acute and delayed	None known.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media	As appropriate for surrounding fire. Water spray, foam, dry powder or CO2.
Suitable Extinguishing Media	Do not use water jet. Direct water jet may spread the fire.
Unsuitable extinguishing Media	This product is an aqueous mixture which will not burn.
Special hazards arising from the substance or mixture	
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.

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. Do not breathe dust/fume/gas/mist/vapours/spray. Remove contaminated clothing and wash all affected areas with plenty of water.
Environmental precautions	Do not allow to enter drains, sewers or watercourses.
Methods and material 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.

SECTION 7: HANDLING AND STORAGE

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.
Conditions for safe storage, including any incompatibilities	Keep only in original packaging. Keep in a well ventilated place. Keep container closed. Avoid contact with acids and alkalis. Strong oxidising agents. This product may react with metals.
Storage temperature	Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Keep from direct sunlight.
Incompatible materials	Stable at ambient temperatures.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
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	-	-	ACGIH, A4

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		-	15	-	-	OSHA
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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:

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.

Biological limit value

Not established.

Exposure controls

Appropriate engineering controls

Provide adequate ventilation (typically 10 air changes per hour) when using the material and follow the principles of good occupational hygiene to control personal exposures. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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

Take care for general good hygiene and housekeeping. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Eye wash fountain is recommended. Launder contaminated clothing before reuse.

Eye/face protection



Wear eye protection with side protection (EN166). Eyewash bottles should be available.

Skin protection



Hand protection: Wear impervious gloves (EN374).
 Recommended: Neoprene

Body protection: Wear dust-resistant protective clothing.

Respiratory protection



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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Blue Liquid
Odour	Odourless
Odour Threshold	Not available
pH	3 – 4
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 applicable
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	Not applicable
Vapour density	Not available
Relative density	Not available
Solubility(ies)	Water: Miscible Other: Not Available

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Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition Temperature	Not available
Viscosity	60 - 100 cP @ 25°C

Other information

Density (g/cm ³)	1.10 - 1.30 g/cm ³
Percent volatile	85.2 % estimated
Specific gravity	1.05 – 1.25
Explosive properties	Not explosive
Oxidising properties	Not oxidising

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	Avoid prolonged storage at elevated temperature. Keep from direct sunlight. Do not freeze. Keep away from incompatible materials.
10.5 Incompatible materials	Avoid contact with acids and alkalis. Strong oxidising agents. This product may react with metals.
10.6 Hazardous decomposition product(s)	None known.

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) >2,000 mg/kg.
Acute toxicity - Inhalation	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >20 mg/l
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.
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	Unlikely – accidental exposure
Ingestion	Unlikely – accidental exposure
Skin Contact	Possible – accidental exposure
Eye Contact	Unlikely – accidental exposure
Early onset symptoms related to exposure	None anticipated
Delayed health effects from exposure	None anticipated
Other information	
NTP Report on Carcinogens	All chemicals are not listed
IARC Monographs	All chemicals are not listed
OSHA Designated Carcinogen	All chemicals are not listed

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SECTION 12: ECOLOGICAL INFORMATION

<p>Toxicity</p> <p>Persistence and degradability</p> <p>Bioaccumulative potential</p> <p>Mobility in soil</p> <p>Other adverse effects</p>	<p>Mixture: Based upon the available data, the classification criteria are not met.</p> <p>The product contains inorganic compounds which are not biodegradable. The other components of the product are slowly biodegradable.</p> <p>The product has low potential for bioaccumulation.</p> <p>The product is miscible with water. May spread in water systems.</p> <p>None known.</p>
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SECTION 13: DISPOSAL CONSIDERATIONS

<p>Waste treatment methods</p>	<p>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.</p>
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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.		
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 (Toxic Substance Control Act)	All chemicals are not listed
US State Regulations	
Proposition 65 (California)	All chemicals are not listed

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1, 11. Updated version and date. Please review SDS with care. See below:

Sections indicated with the following have been revised

Version: 1.2

Date of preparation: 1st December 2020

Date Previous Issue: 20th March 2020

Classification of the substance or mixture in accordance with OSHA HCS (29 CFR 1910.1200) Appendices A and B.

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

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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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