

SAFETY DATA SHEET

Dryden Aqua



Date of issue: 26/11/2025
Date of First Issue: 20th March 2020
Version: V6.2

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

APF Water Treatment

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

1.1 Product Identifier		
Product Name	APF Water Treatment	
Product Code	20012 & 20018	
Unique Formula Identifier (UFI)	RFJ0-W0X6-500D-3E5W	
Nanoform	The product does not contain nanoparticles.	
1.2 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.	
1.3 Details of the supplier of the safety data sheet		
Company Identification	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)	
1.4 Emergency Telephone Number		
Emergency telephone number	+44 (0) 800 246 1274	Ecostar Environment
National Poisons Information Service (United Kingdom)	+44 (0) 3448 920111	24 hr. emergency phone number
NHS 24	111	Healthcare Professionals ONLY
		Members of Public

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Regulation (EC) No. 1272/2008 (CLP)	Met Corr. 1; H290 Eye Dam. 1; H318 Aquatic Chronic 3; H412
2.2 Label elements	
Product name	According to Regulation (EC) No. 1272/2008 (CLP) APF Water Treatment
Contains:	Aluminium chloride, basic; Lanthanum(III) chloride hydrate
Hazard Pictogram(s)	
Signal Word(s)	DANGER
Hazard Statement(s)	H290: May be corrosive to metals. H318: Causes serious eye damage. H412: Harmful to aquatic life with long lasting effects.
Precautionary Statement(s)	P234: Keep only in original packaging. P273: Avoid release to the environment.

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P280: Wear protective gloves/protective clothing and eye/face protection.
P390: Absorb spillage to prevent material damage.
P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER/doctor.

Supplemental information

EUH208: Contains: Lanthanum(III) chloride hydrate. May produce an allergic reaction.

2.3 Other hazards

None known

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3. Substances

1 Not applicable

3. Mixtures

2

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

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Aluminium Chloride	6 - 10	1327-41-9	215-477-2	Not yet assigned in the supply chain	Met. Corr. 1 ; H290 Eye Dam. 1 ; H318
Lanthanum(III) chloride hydrate	3 - <5	20211-76-1	233-237-5	01-2119452063-49-0002	Met. Corr. 1 ; H290 Eye Dam. 1 ; H318 Skin Sens. 1 ; H317 Aquatic Chronic 2 ; H411 EUH208
Aluminium Hydroxychloride	1 - 5	12042-91-0	234-933-1	01-2119533142-53-xxxx	Met. Corr. 1 ; H290
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	Not yet assigned in the supply chain	Aquatic Chronic 3 ; H412

Specific concentration limit (SCL) & M-factor

Chemical identity of the substance	CAS No.	EC No.	Specific concentration limit (SCL)	M-factor
Lanthanum(III) chloride hydrate	20211-76-1	233-237-5	Skin Sens. 1; H317 ≥ 10 %	-
			Eye Dam. 1 ; H318 ≥ 3 %	-
			Eye Irrit. 2; H319 ≤ 3 %	-

Note: For full text of H phrases see section 16.

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4. SECTION 4: FIRST AID MEASURES



4.1 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.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage. May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

IF IN EYES:

Treat symptomatically.

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

5. SECTION 5: FIREFIGHTING MEASURES

5.1 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.

5.2 Special hazards arising from the substance or mixture

This product is an aqueous mixture which will not burn.

5.3 Advice for firefighters

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.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 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.

6.2 Environmental precautions

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

6.3 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.

6.4 Reference to other sections

See Also Section: 8, 13.

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7. SECTION 7: HANDLING AND STORAGE

- 7.1 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.
- 7.2 Conditions for safe storage, including any incompatibilities** 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.
- Storage temperature
Incompatible materials
7.3 Specific end use(s) Non acid-proof metals, Bases, Unalloyed steel, Galvanized surfaces.
See Section: 1.2.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
8.1.1 Occupational exposure limits

Substance	CAS No.	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		Notes
		(ppm)	mg/m3	(ppm)	mg/m3	
Titanioxid	13463-67-7	-	10	-	-	Total Inhalable Dust Respirable Dust
		-	4	-	-	

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 (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. Guarantee that the eye flushing systems and safety showers are closely located to the working place.

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.

- 8.2.2 Individual protection measures, such as personal protective equipment** 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.. Wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing. Avoid all contact. Do not eat, drink or smoke at the work place.

Eye/ face protection

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

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Skin protection



Hand protection: Wear impervious gloves (EN374). Breakthrough time of the glove material: refer to the information provided by the gloves' producer.
Recommended: Neoprene

Respiratory protection



Body protection: Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

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

Thermal hazards

Not applicable.

8.2.3 Environmental exposure controls

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

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Blue
Odour	Odourless
Melting point/freezing point	< -3 °C (< 26.6 °F)
Boiling point or initial boiling point and boiling range	102 °C (215.6 °F)
Flammability	Not applicable
Lower and upper explosion limit	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	2.3 – 3.2
Kinematic viscosity	60 - 100 cP @ 25°C
Solubility	Water: miscible Other: Not available
Partition coefficient: n-octanol/water (log value)	Not available
Vapour pressure	Not applicable
Density and/or relative density	1.10 - 1.30 g/cm ³
Relative vapour density	Not available
Particle characteristics	Not applicable

9.2 Other information

Specific Gravity	1.05 – 1.25
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10. 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.

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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	Non acid-proof metals, Bases, Unalloyed steel, Galvanized surfaces
10.6	Hazardous decomposition products	None known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on hazard classes as defined in Regulation (EC) No 1272/2008	
	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) >5 mg/L (air)
	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: Eye Dam. 1; Causes serious eye damage.
	Aluminium Chloride	Eye Dam. 1; H318: Causes serious eye damage. Test Result; not fully reversible within: 21 days Reference: ECHA registration dossier
	Lanthanum(III) chloride hydrate	Eye Dam. 1; H318: Causes serious eye damage. Reference: EU classification and labelling inventory
	Respiratory or skin sensitisation	Mixture: Based upon the available data, the classification criteria are not met. Contains: Lanthanum(III) chloride hydrate. May produce an allergic reaction.
	Lanthanum(III) chloride hydrate	Skin Sens. 1; H317: May cause an allergic skin reaction. Sensitisation (mouse) Positive (OECD 429)
	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.
11.2	Information on other hazards	
11.2.1	Endocrine disrupting properties	No substances identified as having endocrine-disrupting properties.
11.2.2	Other information	None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Mixture: Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects. Estimated LC50 (Mixture): > 10 to ≤ 100 mg/l.
	Lanthanum(III) chloride hydrate	Aquatic Chronic 2; H411: Toxic to aquatic life with long lasting effects. Reference: EU classification and labelling inventory
	2-Propen-1-aminium, N,N-dimethyl-N-2-propen-1-yl-, chloride (1:1), homopolymer	Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects. Reference: EU classification and labelling inventory
12.2	Persistence and degradability	The product contains inorganic compounds which are not biodegradable. The other components of the product are slowly biodegradable.
	Aluminium Chloride	Not applicable for inorganic substances.
	Aluminium Hydroxychloride	Not applicable for inorganic substances.
	2-Propen-1-aminium, N,N-dimethyl-N-2-propen-1-yl-, chloride (1:1), homopolymer	No information available.
	Lanthanum(III) chloride hydrate	No information available.
12.3	Bioaccumulative potential	The product has low potential for bioaccumulation.

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	Aluminium Chloride	No information available.
	Aluminium Hydroxychloride	The substance has no potential for bioaccumulation.
	2-Propen-1-aminium, N,N-dimethyl-N-2-propen-1-yl-, chloride (1:1), homopolymer	No information available.
	Lanthanum(III) chloride hydrate	No information available.
12.4	Mobility in soil	The product is miscible with water. May spread in water systems.
	Aluminium Chloride	No information available.
	Aluminium Hydroxychloride	No information available.
	2-Propen-1-aminium, N,N-dimethyl-N-2-propen-1-yl-, chloride (1:1), homopolymer	No information available.
	Lanthanum(III) chloride hydrate	Mobility in soil not to be expected. Log Koc; 5.67 - 6.92 Source; ECHA registration dossier
12.5	Results of PBT and vPvB assessment	Not classified as PBT or vPvB. None of the substances in this product fulfil the criteria for being regarded as a PBT or vPvB substance.
12.6	Endocrine disrupting properties	No substances identified as having endocrine-disrupting properties.
12.7	Other adverse effects	None.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	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.
	Waste classification according to Directive 2008/98/EC (Waste Framework Directive)	HP4 (Irritant — skin irritation and eye damage) HP 14; Ecotoxic

14. SECTION 14: TRANSPORT INFORMATION

	ADR/RID	ADN	IMDG	IATA/ICAO
14.1	UN 2581	UN 2581	UN 2581	UN 2581
14.2	Aluminium Chloride Solution	Aluminium Chloride Solution	Aluminium Chloride Solution	Aluminium Chloride Solution
14.3	8	8	8	8
14.4	III	III	III	III
14.5	Not classified	Not classified	Not classified as a Marine Pollutant.	Not classified
14.6	Special precautions for user	See Section: 2		
14.7	Maritime transport in bulk according to IMO instruments	Not applicable		
14.8	Additional information	None		

15. SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	EU regulations	
1	Authorisations and/or restrictions on use EU - REACH (1907/2006) CoRAP Substance Evaluation To follow:	Not restricted Aluminium Chloride: Substance evaluated in 2015 Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

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15.1. National regulations

2

Germany

Water hazard class: 2 (Self classification)

15.2. Chemical Safety Assessment

A chemical safety assessment is not required under REACH.

16. SECTION 16: OTHER INFORMATION

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

Sections indicated with the following have been revised:

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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)

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification procedure
Met. Corr. 1 ; H290	Expert judgement
Eye Dam. 1 ; H318	Threshold Calculation
Aquatic Chronic 3 ; H412	Threshold Calculation

Legend

ADR	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	ADN: European Agreement on the International Transport of Dangerous Goods by Inland Waterways
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
IATA	IATA: International Air Transport Association
ICAO	ICAO: International Civil Aviation Organization
IMDG	IMDG: International Maritime Dangerous Goods
LTEL	Long term exposure limit
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	RID: Regulations concerning the international railway transport of dangerous goods
STEL	Short term exposure limit
vPvB	vPvB: very Persistent and very Bioaccumulative

Hazard classification / Classification code:

Met. Corr. 1; Corrosive to metals, Category 1
Skin Sens. 1; Skin sensitizer, Category 1
Eye Dam. 1; Eye damage, category 1
Aquatic Chronic 2; Hazardous to the aquatic environment, Chronic ,
Category 2

Hazard Statement(s)

H290: May be corrosive to metals.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H411: Toxic to aquatic life with long lasting effects.

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

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.

Disclaimers

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