

SAFETY DATA SHEET




Dryden Aqua

NoPhos

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier		
Product name	NoPhos	
Product code	20000, 20001, 20002, 20003	
Unique Formula Identifier (UFI)	UQJ0-F00D-200V-3EX3	
Nanoform	Not applicable	
1.2 Relevant identified uses of the substance or mixture and uses advised against		
Identified Use(s)	Phosphates reactive cleaning/removal agent	
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)	
EU Entity	Dryden Aqua Deutschland GmbH	
Company Address	Marburger Str. 20, 35096 Weimar (Lahn), Germany.	
1.4 Emergency telephone number		
Emergency Phone No.	+44 (0) 800 246 1274	24/7 EcoStar Environmental
National Poisons Information Service (United Kingdom)	+44 (0) 3448 920111	24 hr. emergency phone number Healthcare Professionals ONLY
NHS 24	111	Members of Public
Language(s) spoken:	English	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture		
2.1.1 Regulation (EC) No. 1272/2008 (CLP)	Met. Corr. 1; H290 Skin Sens. 1; H317 Eye Dam. 1; H318 Aquatic Chronic 2; H411	
2.2 Label elements	According to Regulation (EC) No. 1272/2008 (CLP)	
Product name	NoPhos	
Contains:	Lanthanum(III) chloride hydrate	
Hazard Pictogram(s)	  	
Signal Word(s)	Danger	

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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.

Precautionary Statement(s)

P234: Keep only in original packaging.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER/doctor.
P391: Collect spillage.

Supplemental information

None

2.3 Other hazards

None Known

SECTION 3: Composition/information on ingredients

3.1 Substances not applicable

3.2 Mixtures Substances in preparations / mixtures

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

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard classification
Lanthanum(III) chloride hydrate	25 - <40	10099-58-8	233-237-5	01-2119452063-49	Met. Corr. 1; H290 Skin Sens. 1; H317 Eye Dam. 1; H318 Aquatic Chronic 2; H411

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	-

For full text of H/P Statements see section 16.

SECTION 4: First aid measures



4.1 Description of first aid measures

Self-protection of the first aider

Wear suitable protective clothing and gloves. Ensure adequate ventilation Do not breathe mist/vapours/spray. Avoid contact with skin, eyes or clothing. Avoid all contact. Take off contaminated clothing.

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

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Ingestion

CENTER/doctor. Treatment by an ophthalmologist due to possible caustic burn of the eyes may be required.

4.2 Most important symptoms and effects, both acute and delayed

IF SWALLOWED: Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting. May cause damage to the digestive tract. Seek medical treatment. May cause an allergic skin reaction. Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Notes to a physician:

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions.

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

Combustion products: Oxides of carbon. Hydrogen chloride. Metallic oxides may be formed. Toxic fumes may be produced in a fire.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Evacuate if necessary. Do not allow run-off from fire fighting to enter drains or water courses. Avoid release to the environment. Dike fire control water for later disposal.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Caution - spillages may be slippery. Ensure operatives are trained to minimise exposures. Ensure adequate ventilation Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not breathe mist/vapours/spray.

6.2 Environmental precautions

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. Dike area to contain the spill and prevent releases to sewers, drains, or other waterways. Spillages or uncontrolled discharges into soil must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Stop leak if safe to do so. 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 Section: 8, 13

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. Take off contaminated clothing.

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.

storage temperature

Store in dry place.

Incompatible materials

Avoid contact with foodstuffs. Keep away from: strong bases. This product may react with metals. Non acid-proof metals, Bases, Unalloyed steel, Galvanized surfaces

7.3 Specific end use(s)

See Section: 1.2

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SECTION 8: Exposure controls/personal protection

8.1	Control parameters	
8.1.1	Occupational exposure limits	Not established
8.1.2	Biological Limit Value	Not established
8.1.3	PNECs and DNELs	Not established
8.2	Exposure controls	
8.2.1	Appropriate engineering controls	Ensure operatives are trained to minimise exposures. Ensure adequate ventilation. In case of inadequate ventilation wear respiratory protection. Good hygiene practices and housekeeping measures. A washing facility/water for eye and skin cleaning purposes should be present.
8.2.2	Individual protection measures, such as personal protective equipment	Avoid contact with skin, eyes or clothing. Do not breathe mist/vapours/spray. Wear protective gloves/eye protection. Do not eat, drink or smoke at the work 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.

Eye / face protection



Use eye protection according to EN 166, designed to protect against liquid splashes. Wear face protective shield.

Skin protection



Hand protection: EN 420. Protective index 6, corresponding > 480 minutes of permeation time according to EN 374. Suitable materials: Butyl rubber, Nitrile rubber. Unsuitable gloves materials: Leather

Skin protection: Wear suitable coveralls to prevent exposure to the skin.

Respiratory protection



In case of inadequate ventilation wear respiratory protection. Filter type: 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.

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	Not applicable
	Boiling point or initial boiling point and boiling range	> 100 °C (> 212 °F) estimated
	Flammability	Not applicable – Liquid
	Lower and upper explosion limit	Not applicable – Liquid
	Flash point	Not established
	Auto-ignition temperature	Not established
	Decomposition temperature	Not established
	pH	4 -5 (1% Aqueous solution)

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Kinematic viscosity	Not established
Solubility	Miscible with water. Other: Not available
Partition coefficient: n-octanol/water (log value)	Not established
Vapour pressure	Not established
Density and/or relative density	Density: 1.25 g/cm ³
Relative vapour density	Not established
Particle characteristics	Not applicable – Liquid

9.2 Other information

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	Evolution of heat under influence of lyes. Reacts with alkaline earth metals.
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	Keep away from: strong bases. Avoid contact with foodstuffs. This product may react with metals. Non acid-proof metals, Bases, Unalloyed steel, Galvanized surfaces
10.6 Hazardous decomposition products	Combustion products: Oxides of carbon. Hydrogen chloride. Metallic oxides may be formed. Toxic fumes may be produced in a fire.

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. Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw
Acute toxicity - inhalation	Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LC50 >5 mg/l (Dust/Mist)
Acute toxicity - Skin contact	Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw
Skin corrosion/irritation	Mixture: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Mixture: Eye Dam. 1; H318: Causes serious eye damage.
Lanthanum(III) chloride hydrate	Eye Dam. 1; H318: Causes serious eye damage.
Respiratory or skin sensitisation	Causes serious eye damage. (rabbit) (OECD 405)
Lanthanum(III) chloride hydrate	Mixture: Skin Sens. 1; H317. May cause an allergic skin reaction.
Germ cell mutagenicity	Skin Sens. 1; H317: May cause an allergic skin reaction.
Carcinogenicity	Sensitisation (Mouse) positive (OECD 429)
Reproductive toxicity	Mixture: Based on available data, the classification criteria are not met.
STOT - single exposure	Mixture: Based on available data, the classification criteria are not met.
STOT - repeated exposure	Mixture: Based on available data, the classification criteria are not met.
Aspiration hazard	Mixture: Based on available data, the classification criteria are not met.
11.2 Information on other hazards	
11.2.1 Endocrine disrupting properties	This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.
11.2.2 Other information	None Known

SECTION 12: Ecological information

12.1 Toxicity	Mixture: Aquatic Chronic 2; H411: Toxic to aquatic life with long lasting effects.
Lanthanum(III) chloride hydrate	Aquatic Chronic 2; H411: Toxic to aquatic life with long lasting effects.

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		NOEC: (21 days) 0.46 mg/L Cyprinus carpio (Common Carp) (OECD 204) ECHA registration dossier
12.2	Persistence and degradability	No data for the mixture as a whole.
	Lanthanum(III) chloride hydrate	Not applicable for inorganic substances.
12.3	Bioaccumulative potential	No data for the mixture as a whole.
	Lanthanum(III) chloride hydrate	The product is predicted to have low potential for bioaccumulation
12.4	Mobility in soil	No data for the mixture as a whole.
	Lanthanum(III) chloride hydrate	No data
12.5	Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6	Endocrine disrupting properties	This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
12.7	Other adverse effects	None Known

SECTION 13: Disposal considerations

13.1	Waste treatment methods	Dispose of contents in accordance with local, state or national legislation. Do not allow to enter drains, sewers or watercourses.
13.2	Additional information	Avoid release to the environment. Dispose of empty containers and wastes safely.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA/ICAO
14.1	UN number	UN1760	UN1760
14.2	UN proper shipping name	CORROSIVE LIQUID, N.O.S. (Lanthanum chloride, hydrate)	CORROSIVE LIQUID, N.O.S. (Lanthanum chloride, hydrate)
14.3	Transport hazard class(es)	8	8
14.4	Packing group	III	III
14.5	Environmental hazards	Environmentally hazardous substance	Classified as a Marine Pollutant.
14.6	Special precautions for user	See Section: 2	Environmentally hazardous substance
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable	

SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	EU regulations	Not restricted
	Authorisations and/or restrictions on use	
15.1.2	National regulations	
	Germany	Water hazard class: 2 (Self classification)
15.2	Chemical Safety Assessment	A chemical safety assessment is not required under REACH.

SECTION 16: Other information

The following sections contain revisions or new statements: V1.0

References:

Existing Safety Data Sheet (SDS);

Existing ECHA registration for Lanthanum chloride, anhydrous (CAS No. 10099-58-8).

EU classification and labelling inventory Lanthanum(III) chloride hydrate (CAS No. 20211-76-1); Dihydrogen (ethyl)[4-[4-[ethyl(3-sulphonatobenzyl)]amino]-2'-sulphonatobenzhydrylidene]cyclohexa-2,5-dien-1-ylidene](3-sulphonatobenzyl)ammonium, disodium salt (CAS No. 3844-45-9)

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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
Skin Sens. 1; H317	Threshold Calculation
Eye Dam. 1; H318	Threshold Calculation
Aquatic Chronic 2; H411	Summation 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; Metal Corrosive, Category 1
Skin Sens. 1; Skin Sensitisation, 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.

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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