

1. Identification of the substance/preparation and of the company/undertaking

1.1 Product Identifier

Trade Name: Free & Klear

1.2 Relevant Identified uses of the substance or mixture and uses advised against

Uses: Phosphate control and a natural clarifier

1.3 Details of the supplier of the safety data sheet

Company: Complete Pool Controls Ltd
Unit 2, The Park
Stoke Orchard
Bishops Cleeve
Gloucestershire
GL52 7RS

Telephone: +44 (0) 8712 229081

Fax: +44 (0) 8712 229083

E-mail: sales@cpc-chemicals.co.uk

1.4 Emergency Telephone

Tel: +44 (0) 8712 229081 (office hours)

+44 (0) 1242 300271 (outside of office hours)

2. Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Not applicable

Most important adverse effects

Human Health: See section 11 for toxicological information.

Physical & Chemical Hazards: See section 9 for toxicological information.

Potential environmental effects: See section 12 for toxicological information.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

This product does not need to be labelled in accordance with EC Regulations and Directives

Precautionary statements: P101 If medical advice is needed, have product container or label at hand
P102 Keep out of reach of children
P103 Read label before use
P261 Avoid breathing mist
P280 Wear protective gloves and eye/face protection
P301+330+331 IF SWALLOWED: rinse mouth. DO NOT induce vomiting.
P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P302+352: IF ON SKIN (or hair): Immediately take off all contaminated clothing. Rinse skin with water/shower.

2.3 Other Hazards

3. Composition/information on ingredients

3.1 Mixture

Mixture of the chemicals listed below with non-hazardous additives.

Chemical Name	CAS-No.	EINECS	Index	Amount
Subtilism Protease	9014-01-1	232-752-2	647-012-00-8	0.65% H335;H315;H318;H334
Cellulase	9012-54-8	232-734-4	647-002-00-3	*<0.32% H334

* The sum of the asterisked components with other non-hazardous additives is 0.032%

4. First Aid measures**4.1 Description of first aid measures**

General Advice: Immediately remove any clothing soiled by the product. Show this safety data sheet to the doctor in attendance.

If inhaled: If large amounts of fumes are inhaled, remove to fresh air and consult a physician. If not breathing give artificial respiration.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician if necessary.

In case of eye contact: Check for and remove any contact lenses. Rinse opened eye for at least 15 minutes under running water. Keep eye wide open while rinsing. Urgently seek medical attention.

If swallowed: Consult a physician if necessary.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No further information available.

Effects: No further information available.

4.3 Indication of immediate medical attention and special treatment needed

Treatment Treat Symptomatically.

5. Fire fighting measures**5.1 Extinguishing media:**

Suitable extinguishing media: Does not burn. Use water, dry chemicals, carbon dioxide, sand or foam. Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: No information available.

5.2 Special hazards arising from the substance or mixture

Specific Hazards during fire May form carbon oxides, nitrogen oxides (NOx), zirconium oxides.

5.3 Advice for fire-fighters

Special protective equipment for fire fighters: Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coat, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Water may be used to keep fire-exposed containers cool until fire is out.

6. Accidental release Measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal Precautions: If outside keep bystanders upwind and away from the danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see Section 8.

6.2 Environmental precautions

Environmental precautions: None known

6.3 Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up Spilled material should be absorbed onto an inert material and scooped up. Flush spill areas thoroughly with water and scrub to remove residue. If slipperiness remains apply more inert material.

Further information Treat recovered material as described in section 13

6.4 Reference to other sections

For personal protection see section 8

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.
Hygiene measures:	Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands and clothing immediately. Avoid contact with skin, eye and clothing.

7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage areas and containers:	To avoid product degradation and equipment corrosion, do not use iron, copper or aluminium containers or equipment
Advice on protection against fire and explosion:	The product is not flammable. Normal measures for preventive fire protection. Gives off hydrogen by reaction with metals. Risk of explosion.
Further information on storage	Store in cool dry conditions in well sealed receptacles,
Advice on common storage:	No information known.

7.3 Specific end uses

Specific use(s)	Phosphate control and a natural clarifier
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8. Exposure control/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values

8.2 Exposure controls

Engineering measures General ventilation should be sufficient under normal conditions

Personal protective equipment

Respiratory protection A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Respirator use is not required for this product.

Hand protection Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.

Eye protection Wear safety glasses approved to standard EN 166.

Skin and body protection Special skin protection should not be needed

Environmental exposure controls

General advice: Always follow good hygiene/work practices by avoiding vapors or mists and contact with eyes and skin. Thoroughly wash hands after handling and before eating or drinking. Always wear the appropriate PPE when repairing or performing maintenance on contaminated equipment.

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form:	Liquid
Colour:	Translucent
Odour:	Not available

pH	3.5
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Melting point	Not available
Boiling point/boiling range:	Not available
Flash point:	Not available
Flammability (solid, gas)	Not available
Vapour pressure:	Not available
Density @ 20°C:	1.14 g/ml
Water solubility:	Not complete
Explosive properties:	Not available
Oxidising properties:	Not available

9.2 Other Information

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Values should not be construed as a guaranteed analysis of any specific lot or as specifications

10. Stability and reactivity**10.1 Reactivity**

Reactivity	Stable under recommended transport or storage conditions
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10.2 Chemical stability

Chemical stability	No decomposition if stored and applied as directed.
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10.3 Possibility of hazardous reactions

Hazardous reactions:	Not available
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10.4 Conditions to avoid

Conditions to avoid	None known
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10.5 Incompatible materials

Materials to avoid	Strong oxidizing agents.
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10.6 Hazardous decomposition products

Haz. decomp. products:	May form carbon oxides, nitrogen oxides (NOx), zirconium oxides under fire conditions
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Other Information :	Hazardous Polymerization will not occur.
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11. Toxicological Information**11.1 Information on toxicological effects**

Toxicity Values	No information available
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Primary Irritant effect:

On the skin:	May cause skin irritation
On the eyes:	No information available

Sensitization:	Not considered to be a contact sensitizer
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Carcinogenic	No information available
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Mutagenic	No information available
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Trade Name: Free & Klear

12. Ecological Information

12.1 Toxicity

Ecotoxicity values: No data available

12.2 Persistence and degradability

Persistence and degradability: No data available

12.3 Bioaccumulative potential

Bioaccumulative potential: No data available

12.4 Mobility in soil

Mobility: No data available

12.5 PBT and PvB assessment

PBT identification: No data available

12.6 Other adverse effects

Other adverse effects No data available

13. Disposal Considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Do not reuse empty containers without commercial cleaning or reconditioning
- Do not discharge into drains or the environment, dispose to an authorised waste collection point

Classification

Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority

14. Transport Information

14.1 UN Number	Not applicable
14.2 UN proper shipping name	Not applicable
14.3 Transport hazard class(es)	Not applicable
14.4 Packaging Group	Not applicable
14.5 Environmental hazards	Clean up even minor leaks or spills if possible without unnecessary risk
14.6 Special precautions for user	No further information available
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture.

This Safety Data Sheet is provided in compliance with REACH Regulation (EC) No 1907/2006

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out for the mixture by the supplier

Trade Name: Free & Klear

16. Other information

Further information

Restricted to professional users. Attention - Avoid exposure- obtain special instructions before use

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Rev 2

Indicates updated section