

SAFETY DATA SHEET

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

1.1 Product Identifier
 Chemical Kleenpool
 Weight ALGKLNPOOL
 Code 1 Litre

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

Uses: For disinfection of pool and spa water.

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**

Hazard Class	Hazard Category	Target Organs	Hazard Statements
Acute Tox. 4 *	4		H302
Eye Irrit. 2	2		H319
Skin Irrit 2	2		H315
Aquatic Acute 1	1		H400
Aquatic Chronic 1	1		H410

For the full text of the H statements mentioned in this section see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC**Hazard Symbol/Category of danger**

Hazard Symbol/Category of danger	Risk phrases
Harmful	R22
Irritant	R36/37
Dangerous for the environment	R50/53

For the full text of the R phrases mentioned in this section see Section 16.

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**

Hazard symbols:  

Signal word: Warning

Hazard statements: H302 Harmful if swallowed.
 H315 Causes skin irritation
 H319 Causes serious eye irritation
 H410 Very toxic to aquatic life with long lasting effects
 EUH031 Contact with acids liberates toxic gas.

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2. Hazard Identification...cont

Precautionary statements:

Prevention P102 Keep out of reach of children
P402 Store in a dry place.

Precautionary statements:

Response P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+ P 361+ P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water

Hazardous components which must be listed on the label

Copper Sulphate

2.3 Other Hazards

No other information is available.

3. Composition/information on ingredients**3.1 Mixture**

Chemical nature: Liquid

Chemical Name	Identification Numbers			Amount %
	Index-No.	CAS-No.	EC-No.	
Copper Sulphate penahydrate	029-004-00-0	7758-99-8	231-847-6	5 - 10%
Citric Acid		77-92-9	201-069-1	16 - 23
Sorbistat				< 1

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

General Advice: Take off all contaminated clothing immediately.

If inhaled: : If person experiences nausea, headache or dizziness, stop work immediately and move to fresh air until the symptoms disappear. Use support respiration if needed. Seek medical attention.

In case of skin contact: Wash with plenty water for a minimum of 15 minutes. If skin irritation persists, seek medical attention.

In case of eye contact: Rinse immediately with plenty of water, also under eyelids for at least 15 minutes. Remove contact lenses. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.

If swallowed: Immediately drink a minimum of 2 glasses of water to dilute, rinse out the mouth. DO NOT INDUCE VOMITING. Seek immediate medical attention.

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.

Trade Name: Kleenpool

5. Fire fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Powder or water spray. Fight larger fires with water spray.

5.2 Special hazards arising from the substance or mixture

Specific Hazards during fire fighting: May produce toxic copper fumes

5.3 Advice for fire-fighters

Special protective equipment: Fire-fighters should wear full protective clothing and self-contained breathing apparatus (SCBA). Thoroughly decontaminate fire-fighting equipment including all fire fighting wearing apparel after the incident.

Further Information: Collect contaminated fire extinguishing water separately.

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Use personal protective equipment. Provide adequate ventilation. For personal protection see section 8.

6.2 Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration

6.3 Methods and materials for containment and cleaning up

Absorb with liquid-binding material (sand, sawdust, clay soil, vermiculite and commercial absorbents) and place in clean, dry containers for disposal.

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: Never add water to product. Always add product to water. Use clean dry dispensing equipment. Avoid contact with skin and eyes.

Hygiene measures:

Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of the work day. Take off all contaminated clothing immediately. Provide adequate ventilation. Avoid contact with the skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage areas and containers: Store in a dry, well ventilated area. Keep from freezing. Use of propylene, stainless steel grade 316, glass or reinforced plastic is recommended. Avoid concrete and polythene containers.

Advice on protection against fire: Normal measures for preventive fire protection

Further information on storage

If the solution is left open to the air, gradual evaporation of liquid will occur, leaving a crystallised formation of copper citrate. No discolouration, physical or chemical changes have been noted provided the product is stored in accordance with instructions on the approved packaging.

Advice on common storage:

Keep away from food, drink and animal feeding stuffs. Keep away from combustible material

7.3 Specific end uses

No information is available.

8. Exposure control/personal protection**8.1 Control parameters**

Components with critical values that require monitoring at the workplace: Observe all workplace limits for dust.

Copper Sulphate penahydrate			mg/m ³
WEL (Great Britain)	(EH40) Long Term Value	Respirable dust	1
	(EH40) Short Term Exposure	Respirable dust	2
	(EH40) Long Term Exposure	Fume	0.2

8.2 Exposure controls**Engineering measures**

Fume cupboard required when vapours/aerosol are generated.

Personal protective equipment

Respiratory protection

If vapour mists or aerosols are generated wear a respirator.

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. Provide eye station

Skin and body protection

Plastic apron, sleeves, boots-if handling large quantities

Environmental exposure controls

General advice:

General room ventilation plus local exhaust should be used to maintain exposure below
Local authorities should be advised if significant spillages cannot be contained

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

Form:	Liquid
Colour:	Clear blue
Odour:	Slight
pH @ 20°C:	7.2 - 7.4
Boiling point/boiling range:	101°C
Flash point:	n/a
Density @ 20°C:	1.239/ml
Water solubility:	Fully miscible
Thermal decomposition:	45°C

9.2 Other Information

Specific gravity at 20°C:	1.12
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10. Stability and reactivity

10.1 Reactivity	No information available
10.2 Chemical stability	Copper citrate is permanently stable at the concentration level used.
10.3 Possibility of hazardous reactions	No information available
10.4 Conditions to avoid	High temperature.
10.5 Incompatible materials	Avoid concrete and polythene containers.
10.6 Hazardous decomposition products	Copper

11. Toxicological Information

11.1 Information on toxicological effects

Primary Irritant effect

On the skin: Irritating effect

On the eye: Irritating effect

Carcinogenic There is no evidence that this substance has any carcinogenic properties.

Mutagenic There is no evidence that this substance is mutagenic

Sensitization: No sensitizing effects known

Additional toxicological information:

If ingested, gastro-enteritis may occur with nausea vomiting, lethargy and diarrhoea.

Acute exposure may cause transient respiratory tract irritation

12. Ecological Information

12.1 Toxicity

This product is toxic to fish and aquatic organisms.

DO NOT discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans or their waters unless in accordance with the applicable regulatory requirements.

DO NOT discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority.

12.2 Persistence and degradability No information available

12.3 Bioaccumulative potential Product is not expected to bioaccumulate.

12.4 Mobility in soil Soluble in water, predicted to have high mobility in soil.

12.5 PBT and PvB assessment No data available

12.6 Other adverse effects Harmful effects to aquatic organisms

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	3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s (contains copper sulphate)
14.3 Transport hazard class(es)	
ADR Class (Label, classification code; Hazard ID; Tunnel Restriction code)	9 9; E2; 50; (E)
RID Class (Label, Classification Code; Hazard ID;)	9 9; F-A, S-Q; 50
IMDG Class (Labels; EmS)	9 9; E2; 50;
14.4 Packaging Group	III
14.5 Environmental hazards	
Labelling according to 5.2.1.8 ADR:	no
Labelling according to 5.2.1.8 RID:	no
Labelling according to 5.2.1.8 IMDG:	no
Classification as environmentally hazardous according to 2.9.3 IMDG:	Yes
Classified as 'P' according to 2.10 IMDG:	no
14.6 Special precautions for user	See section 8
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
IMDG:	Currently we do not have any information from our supplier about this.

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

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R22 Harmful if swallowed

R36/37 Irritating to eyes and respiratory system

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of H-statements referred to under sections 2 and 3

H302 Harmful if swallowed.

H315 Causes skin irritation

H319 Causes serious eye irritation

H410 Very toxic to aquatic life with long lasting effects

EUH031 Contact with acids liberates toxic gas.

Very toxic to aquatic life with long lasting effects.

Contact with acids liberates toxic gas.

Further information

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

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16. Other information

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from use of this information. Users should make their own investigations to determine the suitability of the information for their particular needs and uses.

• Abbreviations and acronyms:

ADR: Accord europeen sur le transport des marchandises dangereuse par Route (European Agreement concerning the
RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR Dangerous goods Regulations by the 'International Air Transport Association' (IATA)
ICAO: International Civil Aviation Organization
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS European Inventory of Existing Commercial Chemical Substances.
CAS: Chemicals Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

Revision	Date	By	Amendment
1	17/04/2007	Linda Brueford	
2	01/10/2009	Lorna Murray	Sections 2 & 3 swapped round to comply with REACH, classification changes in section 2, 14 and 15 and other minor editorial amendments.
3	29/06/2011	Linda Brueford	GHS label elements added, Updated to 2011 European requirements and other minor editorial amendments
4	07/01/2014	Linda Brueford	Emergency out of hours number added and other minor editorial amendments.