Metal Klear

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

1.1 Product Identifier Metal Klear

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

Uses: Clear poolwater discoloured by metals

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 +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 Statements
Acute Tox. 4 *	H302
Eye Dam 1	H318

For the full text of the H statements 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 physicochemical information
Potential environmental effects: See section 12 for environmental information

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols: 

Signal word: Warning

Hazard statements:	H302	Harmful if swallowed.
	H318	Causes serious eye irritation.
Precautionary statements:	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P262	Do not get in eyes, on skin, or on clothing.
	P301+P310+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P303+P361+P353	IF ON SKIN: Remove / Take off immediately all contaminated clothing. Rinse skin with water/shower
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
	P312.	Call a POISON CENTER or doctor/physician if you feel unwell.
	P301+P330+P331	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician

2. Hazard Identification…cont

Precautionary statements: P405 Store locked up.
P501 Dispose of contents/container in accordance with regulations.

2.3 Other Hazards No information available

3. Composition/information on ingredients

3.1 Mixture

Tetrasodium Ethylendiamine Tetraacetate

EINECS	CAS	PBT / WEL	CLP Classification	Percent
-	64-02-08	-	Acute Tox. 4 * H302; Eye Dam. 1 H318	11.4%

All other components are either non-hazardous or below the minimum quantities.

4. First Aid measures

4.1 Description of first aid measures

General Advice: Take off all contaminated clothing immediately.
Symptoms of poisoning may occur after several hours. Medical observation for at least 48 hours after the accident is recommended.·

If inhaled: :
If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen

In case of skin contact: Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wash clothing before reuse and discard contaminated shoes.

In case of eye contact: Wash immediately and continuously with flowing water for at least 15 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist.

If swallowed:
Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If possible, do not leave individual unattended

4.2 Most important symptoms and effects, both acute and delayed

If inhaled:
It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract. Symptoms are not expected at air concentrations below the recommended exposure limits

In case of skin contact: Can cause permanent skin damage. Symptoms may include redness, burning, and swelling of skin, burns, and other skin damage. The feeling of irritation or pain may not occur until several hours after the exposure. Additional symptoms of skin contact may include: hair loss Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use

In case of eye contact: Can cause permanent eye injury. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure the cornea and cause blindness.

4. First Aid measures

4.2 Most important symptoms and effects, both acute and delayed

If swallowed: Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destroy tissue in the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury.

4.3 Indication of immediate medical attention and special treatment needed

Special Treatment: Treat Symptomatically

5. Fire fighting measures

5.1 Extinguishing media:

Suitable media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Exposure hazards: Under certain fire conditions, traces of other toxic gases cannot be excluded.
May form: carbon oxides, nitrogen oxides, toxic fumes

5.3 Advice for fire-fighters

Advice for fire-fighters: 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: Keep people at a distance and stay on the windward side. Do not breathe vapours. Put on breathing apparatus. Ensure adequate ventilation. Avoid contact with eyes.·

6.2 Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system.
Inform respective authorities in case product reaches water or sewage system.

6.3 Methods and materials for containment and cleaning up

Clean-up procedures: Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers. Scoop and sweep up all spilled product and other contaminated materials and place in marked disposal containers. If possible, clean up spill area on a dry basis and then flush with plenty of water. Absorb liquid on vermiculite, floor absorbent or other absorbent material

6.4 Reference to other sections

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal

7. Handling and storage

7.1 Precautions for safe handling

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.

7.2 Conditions for safe storage, including any incompatibilities.

Storage Areas: Storage temperature: 0 to 120 deg F (-17.7C to 48.9C).

Protection against fire: No special requirements

Further information: Product solutions are corrosive to many commonly used materials of construction such as steel, galvanized iron, aluminum, tin and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxyplastic equipment.

Common storage: Do not store together with acids

7.3 Specific end uses No information is available.

8. Exposure control/personal protection

8.1 Control parameters None assigned

8.2 Exposure controls

Engineering measures Ensure adequate ventilation of the working area.

General protective and hygienic measures Keep away from foodstuffs, beverages and food. Instantly remove any contaminated garments. Wash hands during breaks and at the end of the work. Use skin protection cream for preventive skin protection. Do not eat, drink or smoke while working.

Personal protective equipment

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipement.

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: Wear clean, long sleeved, body-covering clothing

Environmental exposure controls

General advice: General room ventilation plus local exhaust should be used to maintain exposure below TLV. Eyewash and emergency shower facilities recommended. Remove and wash contaminated clothing before reuse.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Liquid
Colour:	Rose to lavender
Odour:	None
pH @ 20°C:	10.5
Melting point	Not available
Boiling point	219.00 °F / 219 °F@ 760.00 mmHg
Vapour pressure:	17.50 mmHg @ 68.00 °F / 20.00 °C
Vapour density:	0.6 (AIR=1)
Density @ 20°C:	1.05 g/mL
Water solubility:	Not available

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: No decomposition if used according to specifications.

10.2 Chemical stability

Chemical stability: Stable under normal use and conditions

10.3 Possibility of hazardous reactions

Hazardous reactions: None known

10.4 Conditions to avoid

Conditions to avoid: None known

10.5 Incompatible materials

Materials to avoid: Avoid contact with:, reactive metals such as aluminum and magnesium, steel, strong mineral acids, strong oxidizing agents

10.6 Hazardous decomposition products

Haz. decomp. products: May form: carbon oxides, nitrogen oxides (NOx), toxic fumes

11. Toxilogical Information

11.1 Information on toxilogical effects

Toxicity Values: No information available

Primary Irritant effect:

On the skin: Risk of serious damage to skin

On the eyes: Risk of serious damage to eyes

Sensitization: No information available

12. Ecological Information

12.1 Toxicity

Ecotoxicity values: No data available

12.2 Persistence and degradability

Persistence and degradability: No data available

12.3 Bioaccumlative potential

Bioaccumlative potential: No data available

12.4 Mobility in soil

Mobility: Soluble in water

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	UN3267	
14.2 UN proper shipping name	Corrosive liquid, basic, organic, n.o.s. (Sodium Hydroxide, Tetrasodium Ethylendiamine Tetraacetate)	
14.3 Transport hazard class(es)	Class	8
	Classification Code	C7
	Hazard label	80
	Transport Category	3
	Tunnel	E
	LQ	5 L
14.4 Packaging Group	III	
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		N/a

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture.
Information about limitation of use
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 H-statements referred to under sections 2 and 3

H302	Harmful if swallowed.
H318	Causes serious eye irritation.

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

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.

Indicates updated section