

SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: Cooltek 231
- Datasheet Number: 231

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

- Use of the substance/mixture: Cooling water treatment

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Western Environmental Ltd
- Address of Supplier: Western House
Owen Road
Britonwood Trading Estate
Knowsley
Merseyside
UK
L33 7YP
- Telephone: +44 (0) 151 546 1000
- Fax: +44 (0) 151 546 5777
- Responsible Person: Mr Ken Ward
- Email: info@westerngroup.co.uk

1.4 Emergency telephone number

- Emergency Telephone: +44 (0) 151 546 1000 (between the hours 08:30 and 17:00)

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

- CHIP: C; R34
- CLP: Skin corrosion Category 1B H314

2.2 Label elements



- Symbols: GHS05
- Signal Word: Danger
- Hazard phrases
H314 - Causes severe skin burns and eye damage.
- Precautionary Phrases
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P310 - Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353 - IF ON SKIN (or hair): 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.
P405 - Store locked up.

2.3 Other hazards

SECTION 3 Composition/information on ingredients

SECTION 3 Composition/information on ingredients (....)

3.1 Substances

3.2 Mixtures

- potassium hydroxide
CAS Number: 1310-58-3
EC Number: 215-181-3
Concentration: 5-10%
Categories: Acute Tox. 4 * Skin Corr. 1A
R/H Phrases: H302,H314, R22,R35
 - maleic acid
CAS Number: 110-16-7
EC Number: 203-742-5
Concentration: 1-5%
Categories: Acute Tox. 4 * Eye Irrit. 2 STOT SE 3 Skin Irrit. 2 Skin Sens. 1
R/H Phrases: H302,H319,H335,H315,H317, R22,R36/37/38,R43
 - hydroxyphosphonoacetic acid
CAS Number: 23783-26-8
EC Number: 405-710-8
Concentration: 1-5%
Categories: Acute Tox. 4 * STOT RE 2 * Skin Corr. 1B Skin Sens. 1
R/H Phrases: H302,H373 **,H314,H317, R22,R34,R43,R48/22
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SECTION 4 First aid measures

4.1 Description of first aid measures

- P303+P361+P353 - IF ON SKIN (or hair): 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.
- P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

- Prolonged skin or eye contact may cause chemical burns

4.3 Indication of any immediate medical attention and special treatment needed

- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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SECTION 5 Fire-fighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

- No information available

5.3 Advice for firefighters

- Wear chemical protection suit and positive-pressure breathing apparatus
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SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8

6.2 Environmental Precautions

- S57 - Use appropriate containment to avoid environmental contamination
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SECTION 6 Accidental release measures (....)

If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

6.3 Methods and material for containment and cleaning up

- Absorb spillage in inert material and shovel up
- Remove contaminated material to safe location for subsequent disposal
- Flush spill area with copious amounts of water

6.4 Reference to other sections

SECTION 7 Handling and storage

7.1 Precautions for safe handling

- P262 - Do not get in eyes, on skin, or on clothing.
- Eyewash bottles should be available

7.2 Conditions for safe storage, including any incompatibilities

- Avoid contact with acid
- Protect from frost
- P405 - Store locked up.

7.3 Specific end use(s)

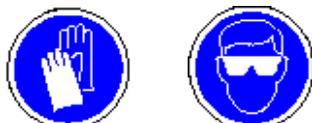
- Cooling water treatment
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SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- There are no recommended or established controls for this product

8.2 Exposure controls



- Wear suitable protective clothing, including eye/face protection and gloves (PVC are recommended)
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SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Reddish/brown coloured liquid.
- Odour: Perceptible odour
- pH: pH 11.0 - 12.5 at 100 % concentration
- Melting point/Range: Melting point - not applicable
- Freezing point/Range: Ca. 0 deg. Celcius
- Boiling Point/Range: Ca. 100 deg. Celcius
- Flammability: Not flammable
- Specific Gravity: Specific gravity (water=1) 1.20 - 1.25
- Solubility in water: Completely soluble in water
- Oxidising Properties: Not applicable

9.2 Other information

SECTION 10 Stability and reactivity

10.1 Reactivity

- Stable under normal conditions.

10.2 Chemical stability

SECTION 10 Stability and reactivity (....)

- Stable under normal conditions.
- 10.3 Possibility of hazardous reactions
- Do not mix with acids.
- 10.4 Conditions to avoid
- Avoid contact with acid
 - Avoid contact with aluminium, zinc, copper and tin
 - S24/25 - Avoid contact with skin and eyes
- 10.5 Incompatible materials
- Contact with acid may form toxic gases
- 10.6 Hazardous Decomposition Products
- Decomposition products may include phosphorous compounds
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SECTION 11 Toxicological information

- 11.1 Information on toxicological effects
- No information available
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SECTION 12 Ecological information

- 12.1 Toxicity
- High concentrations injure aquatic life by the effect on pH.
- 12.2 Persistence and degradability
- No information available
- 12.3 Bioaccumulation Potential
- No information available
- 12.4 Mobility in soil
- Completely soluble in water
- 12.5 Results of PBT and vPvB assessment
- No data available
- 12.6 Other Adverse Effects
- No information available
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SECTION 13 Disposal considerations

- 13.1 Waste treatment methods
- Disposal should be in accordance with local, state or national legislation
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SECTION 14 Transport information

- 14.1 UN Number
- UN No.: 1760
- 14.2 UN Proper Shipping Name
- Proper Shipping Name: Corrosive Liquid, N.O.S.
- 14.3 Transport hazard class(es)
- Hazard Class: 8
- 14.4 Packing group
- Packing Group: II
- 14.5 Environmental hazards
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SECTION 14 Transport information (....)

- Labelling according to 5.2.1.8 ADR Corrosive

14.6 Special precautions for user

- Normally supplied/transported in plastic or polyethylene drums

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

SECTION 15 Regulatory information

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

- This Safety Data Sheet is provided in compliance with the EC Directive 2001/59/EC

15.2 Chemical Safety Assessment

- A chemical safety assessment (CSA) for this product has not yet been completed
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SECTION 16 Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H373: May cause damage to organs through prolonged or repeated exposure. R22: Harmful if swallowed. R34: Causes burns. R35: Causes severe burns. R36/37/38: Irritating to eyes, respiratory system and skin. R43: May cause sensitisation by skin contact. R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Western Environmental Ltd and its affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.