

## SAFETY DATA SHEET

**SECTION 1 Identification of the substance or preparation and of the company/undertaking**

## 1.1 Product identifier

- Product Name: Chemtek 450
- Datasheet Number: 450

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

- Use of the substance/preparation: Non-acidic closed system cleaner

## 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: Dr Joseph Tames\Mr Ken Ward
- Email: joe.tames@westerngroup.co.uk

## 1.4 Emergency telephone number

- Emergency Telephone: +44 (0) 151 546 1000

**SECTION 2 Hazards identification**

## 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008
- CHIP: Xi;R41, Risk of serious damage to eyes; Carc. Cat. 2; R40
- CLP: Eye damage category 1, H318; Carc. 2, H351

## 2.2 Label elements



- Signal Word: Warning
- Hazard phrases  
H318 - Causes serious eye damage.
- Precautionary Phrases  
P264 - Wash thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face 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.  
P337+P313 - If eye irritation persists: Get medical advice/attention.

## 2.3 Other hazards

**SECTION 3 Composition/information on ingredients**

## 3.1 Substances

- potassium hydroxide; caustic potash  
CAS Number: 1310-58-3

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

- EC Number: 215-181-3  
Categories: Acute Tox. 4 \* Skin Corr. 1A  
R/H Phrases: H302,H314, R22,R35  
Concentration: 0.1 - 1.0%
- trisodium nitrilotriacetate  
CAS Number: 5064-31-3  
EC Number: 225-768-6  
Categories: Carc. 2 Acute Tox. 4 \* Eye Irrit. 2  
R/H Phrases: H351,H302,H319, R22,R36,R40  
Concentration: 15 - 25%
  - 1-hydroxyethylidene-1,1-diphosphonic acid  
CAS Number: 2809-21-4  
EC Number: Not known  
Categories: Met. Corr.1:H290;Acute Tox.4:H302;Eye Dam.1:H318  
R/H Phrases: H290,H302, H318,  
Concentration: 10 - 15%

**3.2 Mixtures**

- <Chemical Name>  
CAS Number:  
EC Number:  
Concentration:  
Categories:  
R/H Phrases:

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**SECTION 4 First aid measures****4.1 Description of first aid measures**

- 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+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

**4.2 Most important symptoms and effects, both acute and delayed**

- Can cause damage to the eyes

**4.3 Indication of any immediate medical attention and special treatment needed**

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**SECTION 5 Fire-fighting measures****5.1 Extinguishing media**

- S43 - In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide
- Do not use water jets

**5.2 Special hazards arising from the substance or mixture**

- May give off noxious and toxic fumes in a fire

May produce carbon dioxide, carbon monoxide and oxides of phosphorous.

**5.3 Advice for firefighters**

- Wear chemical protection suit and positive-pressure breathing apparatus

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**SECTION 6 Accidental release measures**

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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
- Contain spillage by any means possible

### 6.2 Environmental Precautions

- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities
- S57 - Use appropriate containment to avoid environmental contamination

### 6.3 Methods and material for containment and cleaning up

- Absorb spillage in earth or sand
- Flush spill area with copious amounts of water

### 6.4 Reference to other sections

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## SECTION 7 Handling and storage

### 7.1 Precautions for safe handling

- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

### 7.2 Conditions for safe storage, including any incompatibilities

- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
- Protect from frost

### 7.3 Specific end use(s)

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## SECTION 8 Exposure controls/personal protection

### 8.1 Control parameters

There are no levels set for this product thus normal standards of industrial hygiene should be observed.

### 8.2 Exposure controls



- Wear goggles giving complete eye protection
  - Wear neoprene or nitrile gloves, boots and apron
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## SECTION 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance: Water white liquid
- Odour: None
- pH: 4.5 - 7.0
- Melting point/Range: Not applicable
- Freezing point/Range: ca. 0 deg. celcius
- Boiling Point/Range: ca 100 deg. celcius
- Flammability: Not flammable
- Specific Gravity: 1.18 - 1.24 (water = 1.00)
- Solubility in water: Completely soluble in water
- Oxidising Properties: Not applicable

### 9.2 Other information

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## **SECTION 10 Stability and reactivity**

### 10.1 Reactivity

Stable under recommended transport or storage conditions.

### 10.2 Chemical stability

- This article is considered stable under normal conditions

### 10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

### 10.4 Conditions to avoid

- Keep away from frost
- Keep away from heat and sources of ignition

### 10.5 Incompatible materials

- Incompatible with oxidizing substances
- Incompatible with acids and alkalis

### 10.6 Hazardous Decomposition Products

- Decomposition products may include carbon oxides
  - Decomposition products may include phosphorous compounds
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## **SECTION 11 Toxicological information**

### 11.1 Information on toxicological effects

- LD50 (oral,rat) 19200 mg/kg
  - LD50 (skin,rat) 63520 mg/kg
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## **SECTION 12 Ecological information**

### 12.1 Toxicity

- LC50 (rainbow trout) 2944 mg/l (96 hr)
- LC50 (bluegill sunfish) 6944 mg/l (96 hr)
- EC50 (Daphnia magna) 4216 mg/l (48 hr)

### 12.2 Persistence and degradability

- Biodegradable

### 12.3 Bioaccumulation Potential

- Bioaccumulation is insignificant

### 12.4 Mobility in soil

- Completely soluble in water

### 12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

### 12.6 Other Adverse Effects

- Presents little or no hazard to the aquatic environment
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## **SECTION 13 Disposal considerations**

### 13.1 Waste treatment methods

- P501 - Dispose of contents/container to an authorised waste collection point
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## **SECTION 14 Transport information**

### 14.1 UN Number

- UN No.: N/A
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**SECTION 14 Transport information (....)**

## 14.2 UN Proper Shipping Name

- Proper Shipping Name: N/A

## 14.3 Transport hazard class(es)

- Hazard Class: N/A

## 14.4 Packing group

- Packing Group: N/A

## 14.5 Environmental hazards

- On available data, substance is not harmful to the environment

## 14.6 Special precautions for user

- Not classified as hazardous for road transport

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

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**SECTION 15 Regulatory information**

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

- No special precautions are required for this product

## 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:- H290: May be corrosive to metals. H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage. H319: Causes serious eye irritation. H351: Suspected of causing cancer. R22: Harmful if swallowed. R35: Causes severe burns. R36: Irritating to eyes. R40: Limited evidence of carcinogenic effect.

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.