SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: Boilertek 970
- Datasheet Number: 970

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

- Use of the substance/preparation: Boiler steam treatment
- At this moment we have not identified any uses advised against

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: R35 - Causes severe burns
- CLP: Skin corrosion Category 1B H314

2.2 Label elements

- 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.
  P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
  P264 - Wash contaminated skin thoroughly after handling.
  P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
  P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  P501 - Dispose of contents/container to an authorised waste collection point

2.3 Other hazards

- None

SECTION 3 Composition/information on ingredients

3.1 Substances

- 2-amino-2-methylpropanol
  CAS Number: 124-68-5
  EC Number: 204-709-8
  Categories: Eye Irrit. 2 Skin Irrit. 2 Aquatic Chronic 3
  R/H Phrases: H319,H315,H412, R36/38,R52/53
  Concentration: 15 - 25%
- 2-diethylaminoethanol; N,N-diethylethanolamine
  CAS Number: 100-37-8
  EC Number: 202-845-2
  Categories: Flam. Liq. 3 Acute Tox. 4 * Acute Tox. 4 * Acute Tox. 4 * Skin Corr. 1B
  R/H Phrases: H226,H332,H312,H302,H314, R10,R20/21/22,R34
  Concentration: 15 - 25%

3.2 Mixtures

SECTION 4 First aid measures

4.1 Description of first aid measures

- P314 - Get medical advice/attention if you feel unwell.

Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion: DO NOT induce vomiting. Get medical attention immediately. Do not give anything by mouth.

Skin contact: Remove contaminated clothes and rinse skin thoroughly with water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

Eye contact: Promptly wash eyes with plenty of water while lifting the eyelids. Make sure to remove any contact lenses from the eyes, if safe to do so, before rinsing. Continue to rinse for 30 minutes. Immediately transport to hospital or eye specialist.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

Swallowing may result in ulceration/burns of the mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomit may damage the lungs. Suggest endotracheal/oesophageal control if lavage is done. If burns are present, treat symptomatically after decontamination. Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an opthalmologist. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- P370+P378 - In case of fire: use water, alcohol resistant foam or dry agent for extinction

5.2 Special hazards arising from the substance or mixture

Fire or high temperatures create: Toxic gases/vapours/fumes of: Carbon monoxide (CO), Carbon dioxide (CO2), Nitrous gases (NOx). Closed containers can burst violently when heated, due to excess pressure build up.

5.3 Advice for firefighters

- Wear chemical protection suit and positive-pressure breathing apparatus

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8
- S41 - In case of fire and/or explosion do not breathe fumes

6.2 Environmental Precautions

- Do not allow to enter public sewers and watercourses
- 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
- Place in sealable container
- Remove contaminated material to safe location for subsequent disposal
- Wash thoroughly after dealing with spillage

6.4 Reference to other sections

SECTION 7 Handling and storage

7.1 Precautions for safe handling

- P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
- S24/25 - Avoid contact with skin and eyes
- P264 - Wash hands and working surfaces thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- Keep away from heat and sources of ignition

7.2 Conditions for safe storage, including any incompatibilities

- Protect from frost
- Protect from heat
- Keep in containers made of material similar to the original

Unsuitable containers: Copper, Zinc, Aluminium, Copper alloys, Zinc alloys, Aluminium allaoys, Galvanised containers.

7.3 Specific end use(s)

- As listed in Section 1.2

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- DNEL (inhalational) Long and Short Term: 24 mg/m3
- PNEC Fresh water: 0.044 mg/l

8.2 Exposure controls

- Engineering controls should be provided which maintain airborne concentrations as low as practicable
- P285 - In case of inadequate ventilation wear respiratory protection.
- Wear butyl rubber gloves
- Wear goggles giving complete eye protection
- Eyewash bottles should be available

SECTION 9 Physical and chemical properties

SECTION 9 Physical and chemical properties (....)

9.1 Information on basic physical and chemical properties

- Appearance: Water white liquid
- Odour: Amine odour
- pH: pH 11.5 - 13.0 at 100 % concentration
- Melting point/Range: Melting point - not applicable
- Freezing point/Range: Ca. 0 deg. Celcius
- Boiling Point/Range: 100 - 165 deg. Celcius
- Flammability: Not flammable
- Specific Gravity: Specific gravity (water=1) 0.96 - 1.00
- Solubility in water: Completely soluble in water
- Oxidising Properties: Not applicable

9.2 Other information

SECTION 10 Stability and reactivity

10.1 Reactivity

- This article is considered stable under normal conditions

10.2 Chemical stability

- This article is considered stable under normal conditions

10.3 Possibility of hazardous reactions

- Exothermic reaction with: Strong oxidising agents, Halogenated hydrocarbons, Acids.

10.4 Conditions to avoid

- Avoid overheating

10.5 Incompatible materials

Strong acids. Acid chlorides, Acid anhydrides, Strong oxidising agents.

10.6 Hazardous Decomposition Products

Oxides of: Carbon, Nitrogen, Nitrous gases (NOx)

SECTION 11 Toxicological information

11.1 Information on toxicological effects

- LD50 (oral,rat) >2000 (Calculated) mg/kg
- LD50 (dermal) : (Guinea Pig) >1000 (Calculated) mg/kg
- May disturb the mucous membranes
- The ingestion of significant quantities may cause gastro-intestinal disturbances
- The ingestion of significant quantities may cause inflammation and oedema of the larynx/bronchi

SECTION 12 Ecological information

12.1 Toxicity

- LC50 (fish) 850 mg/l (96 hr)
- R52 - Harmful to aquatic organisms

12.2 Persistence and degradability

- Biodegradability greater than 20% (stability test)

12.3 Bioaccumulation Potential

- May accumulate in soil and water systems.

12.4 Mobility in soil

- No information available

SECTION 12 Ecological information (....)

12.5 Results of PBT and vPvB assessment

- No data available

12.6 Other Adverse Effects

- No information available

SECTION 13 Disposal considerations

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

13.1 Waste treatment methods

- P501 - Dispose of contents/container to an authorised waste collection point

SECTION 14 Transport information

14.1 UN Number

- UN No.: 2735

14.2 UN Proper Shipping Name

- Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S.

14.3 Transport hazard class(es)

- Hazard Class: 8

14.4 Packing group

- Packing Group: II

14.5 Environmental hazards

- Not a marine pollutant

14.6 Special precautions for user

- No special precautions are required for this product

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

- Not applicable

SECTION 15 Regulatory information

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

- Refer to current CPL Regulations

15.2 Chemical Safety Assessment

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

SECTION 16 Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H226: Flammable liquid and vapour. H302: Harmful if swallowed. H312: Harmful in contact with skin. H314: Causes severe skin burns and eye damage. H315: Causes skin irritation. H319: Causes serious eye irritation. H332: Harmful if inhaled. H412: Harmful to aquatic life with long lasting effects. R10: Flammable. R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R34: Causes burns. R36/38: Irritating to eyes and skin. R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 16 Other information (....)

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.