

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/

UNDERTAKING

1.1. Product Identifier:

Product Name: aE3010

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

Intended use: For industrial cooling water treatment. Silicate based inhibitor.

1.3. Details of the supplier of the safety data sheet

Company Name: Anker Elemental Limited
Centenary Business Centre
Attleborough Fields Industrial Estate
Hammond Close
Nuneaton
Warwickshire
CV11 6RY

Tel: 07803 770241

Email: ian@ankerelemental.co.uk

1.4. Emergency telephone number

Emergency No: 07803 770241 (Office hours only)

National Chemical Emergency Centre - 01865 407333

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification

Physical hazards

Met. Corr. 1 - H290

Health hazards

Skin Corr. 1A - H314 Eye Dam. 1 - H318

Environmental hazards

Not Classified

2.2. Label Elements

Hazard Statements

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.

EUH032: Contact with acids liberates very toxic gas.

Signal Word: Danger

Hazard Pictogram:



Hazard statements

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary Statements

P264 Wash contaminated skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep 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.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.
P501 Dispose of contents/container in accordance with national regulations.
P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.
P401 Store in accordance with national regulations.
P404 Store in a closed container.

Supplemental label information

RCH002b For professional users only.
Contains - SODIUM SILICATE, POTASSIUM HYDROXIDE, BENZOTRIAZOLE

2.3. Other Hazards

This substance is not identified as a PBT substance.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances/mixtures

SODIUM SILICATE **10-30%**
CAS-No.: 1344-09-8 **EC No:** 215-687-4 **REACH reg. No:** 01-2119448725-31-XXXX

Classification
Skin Corr. 1B - H314
Eye Dam. 1 - H318
STOT SE 3 - H335

POTASSIUM HYDROXIDE **1-5%**
CAS No: 1310-58-3 **EC No:** 215-181-3 **REACH reg. No:** 01-2119487136-33-XXXX

Classification:
Not Classified.

BENZOTRIAZOLE **1-5%**
CAS No: 95-14-7 **EC No:** — **REACH reg No:** 01-2119979079-20-XXXX

Classification
Acute Tox. 4 - H302
Eye Irrit. 2 - H319

Aquatic Chronic 3 - H412

The Full Text for all Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Remove affected person from source of contamination. Keep affected person warm and at rest. Get medical attention immediately

Ingestion

Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention immediately.

Skin contact

Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye contact

Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse

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

General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Get medical attention promptly if symptoms occur after washing.

Ingestion

Chemical burns.

Skin contact

Reddened skin if chemical is not removed by washing. Later, white and wrinkled skin without pain, often with delayed skin burns. May cause serious chemical burns to the skin.

Eye contact

Severe irritation, burning and tearing.

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

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Notes for the doctor - No specific recommendations.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

No unusual fire or explosion hazards noted.

Hazardous combustion products - Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for fire-fighters

Protective actions during firefighting - No specific firefighting precautions known.

Special protective equipment for firefighters - Wear chemical protective suit.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Refer to Section 8 of this SDS.

6.2. Environmental precautions

Environmental precautions:

Avoid or minimise the creation of any environmental contamination. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Observe all national regulations.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Do not touch or walk into spilled material. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water.

6.4. Reference to other sections

For personal protection, see Section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling. Avoid contact with skin and eyes

7.2. Conditions for safe storage, including any incompatibilities

Store in cool, well ventilated area. Keep container tightly closed and upright.
Only store in correctly labelled containers.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage description: Use as directed by supplier

Specific end use(s): No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Workplace exposure limits:

POTASSIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit

8.2. Exposure controls

Protective Equipment



Appropriate engineering controls

Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Wear eye protection. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

It is recommended that chemical-resistant, impervious gloves are worn. To protect hands from chemicals, gloves should comply with European Standard EN374. Wear protective gloves made of the following material: Butyl rubber. Nitrile rubber. Polyvinyl chloride (PVC). Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Provide eyewash station and safety shower. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated.

Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

State:	Liquid
Colour:	Colourless to brown solution
Odour:	Characteristic. Ammonia.
Solubility:	Miscible
pH:	Concentrate >13
Relative density	1.3 to 1.4

9.2. Other information

Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The following materials may react with the product: Acids.

10.2. Chemical stability

Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

In contact with some metals can generate hydrogen gas, which can form explosive mixtures with air.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time. Avoid freezing temperatures

10.5. Incompatible materials

Materials to avoid Metals Acids Organic materials

10.6. Hazardous decomposition products

No known hazardous decomposition products

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Tox – oral

ATE oral (mg/kg)

5,517.28251469

Symptoms/routes of exposure:

Inhalation

May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

Ingestion

May cause burns in mucous membranes, throat, oesophagus and stomach.

Skin contact

May cause serious chemical burns to the skin.

Eye contact

Causes burns

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Not classified as environmentally hazardous for supply. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity

Low toxicity

12.2. Persistence and degradability

Not persistent. The product is expected to be biodegradable.

12.3. Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

High concentrations may be damaging to environment due to pH effect.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

General information

Contact a licensed waste disposal company.

Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN number: 3266

14.2. UN proper shipping name

Shipping name: CORROSIVE LIQUID, BASIC, INORGANIC N.O.S. (Contains potassium hydroxide)

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous/marine pollutant: No

14.6. Special precautions for user

EmS F-A S-B

Emergency Action Code 2X

Hazard Identification Number

(ADR/RID) 80

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant

SECTION 15: REGULATORY INFORMATION

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

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

General information

Only trained personnel should use this material. Further details may be available from the supplier.

Key literature references and sources for data

REACH registered substances database Other safety data sheets relevant to individual chemical constituents within this product.

Revision date 01/06/2015

Revision 5

SDS status Approved

Hazard statements in full

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.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Disclaimer:

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

SAFETY DATA SHEET

aE3010

Revision date: 1/06/2015
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