

SAFETY DATA SHEET

aE2010

Revision date: 22.02.18

Revision No: 5

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

1.1. Product Identifier:

Product Name: aE2010

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

Intended use: Cobalt Catalysed Sodium Bisulphite boiler water oxygen scavenger.

1.3. Details of the supplier of the safety data sheet

Company Name: Anker Elemental Limited
Unit 16, Hammond Business Centre
Attleborough Fields Industrial Estate
Hammond Close
Nuneaton
Warwickshire
CV11 6RY
Tel: 02476 939 910
Email: ian@ankerelemental.co.uk

1.4. Emergency telephone number

Emergency No: 02476 939 910 (Office hours only)
National Chemical Emergency Centre: 01865 407333

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Physical hazards

Not classified

Health hazards

Acute Tox 4 – Harmful if swallowed

Environmental hazards

Not Classified

2.2. Label Elements

Contains: Sodium hydrogensulphite 15-40 %; Sodium bisulphite 15-40 %



Signal Word: Warning

Hazard statements:

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H302 Harmful if swallowed.

Precautionary statements:

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P305+P351+P338 IF IN EYES: RINSE cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with applicable regulations.

Supplementary label information:

EUH031 Contact with acids liberates toxic gas.

2.3. Other Hazards

vPvB Substances: None - PBT Substances: None

No other known hazards.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

SODIUM HYDROGEN SULPHITE: SODIUM BISULPHITE 30-40 %

CAS: 7631-90-5

EC No: 231-548-0

REACH No: 01-21195245 63-42-XXXX

Classification (EC 1272/2008)

3.1/4/Oral Acute Tox. 4 H302

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash the body thoroughly (shower or bath). Remove contaminated clothing immediately and dispose of safely. After contact with skin, wash immediately with soap and plenty of water.

Eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion:

Give nothing to eat or drink. Drink plenty of water

Inhalation:

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

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

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No specific first aid measures noted.

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

General information

None noted, however, the casualty should be transferred to hospital if any unusual adverse symptoms develop.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Water spray. Carbon dioxide (CO₂). Dry chemical powder.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

5.3. Advice for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Refer to section 7 & 8 of SDS for personal protection details.

6.2. Environmental precautions

Environmental precautions:

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Clean-up procedures:

Wash with plenty of water.

6.4. Reference to other sections

Reference to other sections:

Refer to section 8 & 13 of SDS.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not use empty container before they have been cleaned.

Before making transfer operations, assure that there are no incompatible material residuals in the containers.

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Contaminated clothing should be changed before entering eating areas. Do not eat or drink while working. See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed. Store below 30 °C.

Incompatible materials:

Keep away from acids.

Keep away from oxidising agents.

Instructions as regards storage premises: Adequately ventilated premises.

7.3. Specific end use(s)

Specific end use(s): No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	TLV/ TWA	TLV STEL
Sodium Hydrogensulphite; Sodium Bisulphite 30-40 %	5 mg/m ³ , A4	A4

DNEL/PNEC Exposure Limit Values: N/A

8.2. Exposure controls

Engineering measures

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of vapours.

Respiratory equipment

Respiratory protection not required for normal use.

Hand protection

Use suitable protective gloves e.g. P.V.C., neoprene or rubber.

Skin Protection

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Eye protection

Use close fitting safety goggles. Do not wear contact lens.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

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 wet or contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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9.1. Information on basic physical and chemical properties

State:	Liquid
Odour:	Characteristic
Solubility:	Soluble in water
pH:	3.5 – 5.0
Relative Density:	1.31

9.2. Other information

Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None.

Hazardous Polymerisation - Not relevant

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Materials to Avoid

Acids, alkalis and oxidising agents.

10.6. Hazardous decomposition products

Contact with acids creates toxic gas.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Catalysed Sodium Bisulphite Solution

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1540 mg/kg

Toxicological information of the main substances found in the mixture: N.A.

Inhalation

In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

Ingestion

May cause discomfort if swallowed.

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Skin contact

Liquid may irritate skin.

Eye contact

Spray and vapour in the eyes may cause irritation and smarting.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Cobalt catalysed Sodium Bisulphite Solution

Endpoint: LC50 - Species: Fish - Duration h: 96 - mg/l: 150-220

Endpoint: EC50 - Species: Daphnia - Duration h: 48 - mg/l: 89

Endpoint: EC50 - Species: Algae - Duration h: 72 - mg/l: 48

Endpoint: EC50 - Species: Bacteria - Duration h: 17 - mg/l: 56

12.2. Persistence and degradability

Not persistent. Expected to degrade in the environment

12.3. Bioaccumulative potential

Does not bioaccumulate.

12.4. Mobility in soil

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

General information

Contact a licensed waste disposal company. Dispose of in compliance with local and national regulations.

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS

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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).

Dir. 98/24/EC (Risks related to chemical agents at work) Dir. 2000/39/EC (Occupational exposure limit values) Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) 2015/830 Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 618/2012 (ATP 3 CLP) Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP) Regulation (EU) n. 605/2014 (ATP 6 CLP) Regulation (EU) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation (EU) n. 2016/1179 (ATP 9 CLP) Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: Where applicable, refer to the following regulatory provisions : Directive 2012/18/EU (Seveso III) Regulation (EC) nr 648/2004 (detergents). Dir. 2004/42/EC (VOC directive)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Other information:

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

Hazard statements in full

H302 Harmful if swallowed.

EUH031 Contact with acids liberates toxic gas.

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.