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

1.1 Product identifier

Trade name: TANALITH E 8000
Product-specific registration-no.: 9522

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

Use of the Substance/Mixture: Wood preservatives

1.3 Details of the supplier of the safety data sheet

Company: Arch Timber Protection
Wheldon Road
Castleford
United Kingdom
WF10 2JT

Telephone: +44 (0)1977 714000
Telefax: +44 (0)1977 714001
Responsible/issuing person: advice@archchemicals.com
E-mail address

1.4 Emergency telephone number

Emergency telephone number: +44 (0)1235 239 670

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (67/548/EEC, 1999/45/EC)

Corrosive R34: Causes burns.
Harmful R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

Dangerous for the environment R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling according to EC Directives (1999/45/EC)
Hazard pictograms:
- Corrosive
- Dangerous for the environment

R-phrase(s):
- R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- R34 Causes burns.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s):
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S28 After contact with skin, wash immediately with plenty of water.
- S35 This material and its container must be disposed of in a safe way.
- S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S38 In case of insufficient ventilation, wear suitable respiratory equipment.
- S57 Use appropriate container to avoid environmental contamination.

Hazardous components which must be listed on the label:
- 2-Aminoethanol 141-43-5
- Copper(II) carbonate–copper(II) hydroxide (1:1) 12069-69-1

Sensitising components:
- Propiconazole  May produce an allergic reaction.

2.3 Other hazards
- not applicable

3. Composition/information on ingredients

3.2 Mixtures

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>2-Aminoethanol</td>
<td>141-43-5</td>
<td>C; R34 Xn; R20/21/22</td>
<td>Acute Tox. 4; H332 Acute Tox. 4; H312</td>
<td>&gt;= 25 &lt; 50</td>
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<tr>
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<td>205-483-3</td>
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<tr>
<td>Substance Description</td>
<td>CAS Number</td>
<td>R-phrases</td>
<td>H-statements</td>
<td>Notes</td>
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<td>------------------------------------------------------------</td>
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<tr>
<td>Copper(II) carbonate--copper(II) hydroxide (1:1)</td>
<td>12069-69-1</td>
<td>Xn; R22</td>
<td>Acute Tox. 4; H302 Skin Corr. 1B; H314</td>
<td>&lt; 10 – &lt; 20</td>
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<td>Tallow alkyl amines, ethoxylated</td>
<td>61791-26-2</td>
<td>Xn; R22 Xi; R38 Xi; R41 R50/53</td>
<td>Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400</td>
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<td>Organic acid</td>
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<td>Xi; Xi; R36-R38</td>
<td>Skin Irrit. 2; H315 Eye Irrit. 2; H319</td>
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<td>Fatty acids, C8-10</td>
<td>68937-75-2</td>
<td>C; R34</td>
<td>Skin Corr. 1; H314</td>
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<td>N,N-Didecyl-N,N-dimethylammonium carbonate (3:2)</td>
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<td>Xn; R22 C; R34 N; R50</td>
<td>Acute Tox. 3; H301 Skin Corr. 1B; H314 Aquatic Acute 1; H400</td>
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<td>Propiconazole</td>
<td>60207-90-1</td>
<td>Xn; R22 R43 N; R50-R53</td>
<td>Acute Tox. 4; H302 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410</td>
<td>&gt; 0.1 – &lt; 0.25</td>
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<td>Tebuconazole</td>
<td>107534-96-3</td>
<td>Repr.Cat.3; R63 Xn; R22 N; R51-R53</td>
<td>Repr. 2; H361d Acute Tox. 4; H302 Aquatic Chronic 2; H411</td>
<td>&lt; 2.5</td>
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<td>Didecyldimethylammonium chloride</td>
<td>7173-51-5</td>
<td>C; R34 Xn; R22</td>
<td>Acute Tox. 4; H302 Skin Corr. 1B; H314</td>
<td>&lt; 5</td>
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</table>

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.

### 4. First aid measures

#### 4.1 Description of first aid measures

- **General advice**: Immediate medical attention is required.
If inhaled:

Move to fresh air.
Keep patient warm and at rest.
Give oxygen or artificial respiration if needed.
Immediate medical attention is required.

In case of skin contact:

Take off contaminated clothing and shoes immediately.
Wash off immediately with plenty of water for at least 15 minutes.
Immediate medical attention is required.
Wash contaminated clothing before re-use.

In case of eye contact:

Rinse immediately with plenty of water for at least 15 minutes.
Keep eye wide open while rinsing.
Immediate medical attention is required.
Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

If swallowed:

Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
Immediate medical attention is required.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:
See chapter 11. Toxicological information

4.3 Indication of any immediate medical attention and special treatment needed

Treatment:
Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Carbon dioxide (CO2)
Water spray

Unsuitable extinguishing media:
Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting:
The product is not flammable.
Do not allow run-off from fire fighting to enter drains or water courses.
Burning produces noxious and toxic fumes.

5.3 Advice for firefighters

Special protective equipment for firefighters:
In the event of fire, wear self-contained breathing apparatus.

Further information:
Standard procedure for chemical fires.
6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:
- Ensure adequate ventilation.
- Avoid contact with the skin and the eyes.
- Refer to protective measures listed in sections 7 and 8.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Take off contaminated clothing and shoes immediately.
- Wash contaminated clothing before re-use.

6.2 Environmental precautions

Environmental precautions:
- The product should not be allowed to enter drains, water courses or the soil.
- If the product contaminates rivers and lakes or drains inform respective authorities.
- Prevent further leakage or spillage if safe to do so.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up:
- Soak up with inert absorbent material.
- Sand
- Retain and dispose of contaminated wash water.
- Pick up and transfer to properly labelled containers.
- Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Additional advice:
- See chapter 8. Exposure controls/personal protection
- 13. Disposal considerations

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:
- Avoid formation of aerosol.
- Avoid contact with skin and eyes.
- For personal protection see section 8.
- Smoking, eating and drinking should be prohibited in the application area.
- Provide sufficient air exchange and/or exhaust in work rooms.
- Use only in an area equipped with a safety shower.

Advice on protection against fire and explosion:
- Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:
- Store in original container.
- Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Use appropriate container to avoid environmental
contamination.

Other data: No decomposition if stored and applied as directed.

7.3 Specific end uses
Specific use(s): Wood preservatives

8. Exposure controls/personal protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
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<td>2-Aminoethanol</td>
<td>141-43-5</td>
<td>STEL</td>
<td>3 ppm 7.6 mg/m3</td>
<td>2007-08-01</td>
<td>GB EH40</td>
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<td>Further information</td>
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</tbody>
</table>

8.2 Exposure controls

Engineering measures
Provide adequate ventilation.

Personal protective equipment

Respiratory protection: In the case of vapour formation use a respirator with an approved filter. Respirator with filter for organic vapour (EN 141)
Hand protection:
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves must be inspected prior to use. Replace when worn. Impervious gloves Nitrile rubber

Eye protection:
Wear protective gloves/ protective clothing/ eye protection/ face protection. Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection:
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. impervious clothing If splashes are likely to occur, wear: Complete suit protecting against chemicals

Hygiene measures:
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Ensure that eyewash stations and safety showers are close to the workstation location. When using do not eat, drink or smoke. Take off contaminated clothing and wash before reuse.

Environmental exposure controls
General advice: The product should not be allowed to enter drains, water courses or the soil. If the product contaminates rivers and lakes or drains inform respective authorities. Prevent further leakage or spillage if safe to do so.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties
Appearance: liquid
TANALITH E 8000

Colour : blue
Odour : ammoniacal
Flash point : Note: does not flash
pH : 10.91
   at 20 °C
Density : 1.184 g/cm3
   at 20 °C
Water solubility : Note: completely soluble
Viscosity, dynamic : 40 mPas
   at 5 °C

9.2 Other information
   Oxidising potential : Note: Not relevant

10. Stability and reactivity

10.1 Reactivity
   None known.

10.2 Chemical stability
   Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
   Hazardous reactions : Note: Stable under recommended storage conditions.

10.4 Conditions to avoid
   Conditions to avoid : None known.

10.5 Incompatible materials
   Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products
   Thermal decomposition : Note: None known.

11. Toxicological information

11.1 Information on toxicological effects
   Acute toxicity
      Acute oral toxicity : Remarks: Harmful if swallowed.
TANALITH E 8000
TANALITH E 8000

Acute inhalation toxicity

TANALITH E 8000
Remarks: Harmful by inhalation.

Acute dermal toxicity

TANALITH E 8000
Remarks: Harmful in contact with skin.

**Skin corrosion/irritation**

Skin irritation

TANALITH E 8000
Remarks: Causes skin burns.

**Serious eye damage/eye irritation**

Eye irritation

TANALITH E 8000
Remarks: Causes eye burns.

**Respiratory or skin sensitization**

Sensitisation

TANALITH E 8000
Remarks: Not believed to be sensitising to skin.

Further information

TANALITH E 8000
Remarks: no data available

---

12. Ecological information

12.1 Toxicity

**Ecotoxicology Assessment**

Chronic aquatic toxicity

TANALITH E 8000
Remarks: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2 Persistence and degradability

Biodegradability

TANALITH E 8000
Remarks: no data available

12.3 Bioaccumulative potential

Bioaccumulation

TANALITH E 8000
Remarks: no data available
12.4 Mobility in soil

Mobility TANALITH E 8000 : Remarks: no data available

12.5 Results of PBT and vPvB assessment

TANALITH E 8000 : This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects

Additional ecological information TANALITH E 8000 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil. Dispose of as hazardous waste in compliance with local and national regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Contaminated packaging : Dispose of as unused product. Do not re-use empty containers.

14. Transport information

Dangerous for Transport
14.1 UN number : 1760
14.2 Proper shipping name : CORROSIVE LIQUID, N.O.S.
(2-Aminoethanol, Copper(II) carbonate--copper(II) hydroxide (1:1))
14.3 Transport hazard class : 8
14.4 Packing group : II
Classification Code : C9
Hazard identification No : 80
Labels : 8
14.5 Environmentally hazardous : yes

IATA_C
14.1 UN number : 1760
14.2 Proper shipping name : Corrosive liquid n.o.s.
(2-Aminoethanol, Copper(II) carbonate--copper(II) hydroxide (1:1))
14.3 Transport hazard class : 8
14.4 Packing group : II
Labels : 8
14.5 Environmentally hazardous : yes

IMDG
14.1 UN number : 1760
14.2 Proper shipping name : CORROSIVE LIQUID, N.O.S.
(2-Aminoethanol, Copper(II) carbonate--copper(II) hydroxide (1:1))
14.3 Transport hazard class : 8
14.4 Packing group : II
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B
14.5 Marine pollutant : yes
Copper(II) carbonate--copper(II) hydroxide (1:1)

14.6 Special precautions for user

Other information : Refer to protective measures listed in sections 7 and 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Remarks : Not relevant

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Major Accident Hazard : 96/82/EC  Update: 2003
15.2 Chemical Safety Assessment

not applicable

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of H-statements referred to under sections 2 and 3.

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H361d Suspected of damaging the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.