



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

TANALITH E 3475

Version 1.0 / EN

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

1.1 Product identifier

Trade name : TANALITH E 3475

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)

Harmful	R20/22: Harmful by inhalation and if swallowed.
Irritant	R37/38: Irritating to respiratory system and skin.
Irritant	R41: Risk of serious damage to eyes.
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)

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Hazard pictograms :



Harmful



Dangerous
for the
environment

R-phrases(s) :

R20/22
R37/38
R41
R50/53

Harmful by inhalation and if swallowed.
Irritating to respiratory system and skin.
Risk of serious damage to eyes.
Very toxic to aquatic organisms, may
cause long-term adverse effects in the
aquatic environment.

S-phrases(s) :

S26

S28

S35

S36/37/39

S38

S57

In case of contact with eyes, rinse
immediately with plenty of water and seek
medical advice.
After contact with skin, wash immediately
with plenty of water.
This material and its container must be
disposed of in a safe way.
Wear suitable protective clothing, gloves
and eye/face protection.
In case of insufficient ventilation, wear
suitable respiratory equipment.
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

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
2-Aminoethanol	141-43-5 205-483-3	C; R34 Xn; R20/21/22	Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302 Skin Corr. 1B; H314	>= 25 - < 50

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Copper(II) carbonate-- copper(II) hydroxide (1:1)	12069-69-1 235-113-6	Xn; R22		$\geq 10 - < 20$
Organic acid		Xi; Xi; R36-R38	Skin Irrit. 2; H315 Eye Irrit. 2; H319	< 10
Tebuconazole	107534-96-3 4036402	Repr.Cat.3; R63 Xn; R22 N; R51-R53	Repr. 2; H361d Acute Tox. 4; H302 Aquatic Chronic 2; H411	< 2.5
Propiconazole	60207-90-1 262-104-4	Xn; R22 R43 N; R50-R53	Acute Tox. 4; H302 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 0.1 - < 0.25$

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 : No hazards which require special first aid measures.
- If inhaled : Move to fresh air.
Keep patient warm and at rest.
Give oxygen or artificial respiration if needed.
When symptoms persist or in all cases of doubt seek medical advice.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off immediately with plenty of water for at least 15 minutes.
If a person feels unwell or symptoms of skin irritation appear, consult a physician.
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.
- If swallowed : Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
If you feel unwell, seek medical advice (show the label where possible).

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.

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: 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.

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.

Storage temperature : > 5 - < 25 °C
: Protect from frost.

7.3 Specific end uses

Specific use(s) : Timber preservative for dilution in water and application in industrial vacuum pressure plant

8. Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
2-Aminoethanol	141-43-5	TWA	1 ppm 2.5 mg/m ³	2006-02-09	2006/15/EC
Further information	:	skin: Identifies the possibility of significant uptake through the skin Indicative			

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2-Aminoethano l	141-43-5	STEL	3 ppm 7.6 mg/m ³	2006-02-09	2006/15/EC
Further information	:	skin: Identifies the possibility of significant uptake through the skin Indicative			

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
- 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
- Hygiene measures : Avoid contact with skin, eyes and clothing.
Ensure that eyewash stations and safety showers are close to the workstation location.
When using do not eat, drink or smoke.

Protective measures



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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
Colour : blue
Odour : slight
Flash point : Note: does not flash
pH : 11.18
Density : 1.21 g/cm³
at 25 °C
Water solubility : Note: completely soluble

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 : Protect from frost.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents
: Acids

10.6 Hazardous decomposition products

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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 3475 : LD50 Oral
Species: rat
Dose: By analogy 740 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : Remarks: Harmful by inhalation.
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Acute dermal toxicity : LD50 Dermal
TANALITH E 3475 Species: rat
Dose: By analogy > 2,000 mg/kg

Skin corrosion/irritation

Skin irritation : Remarks: Irritating to skin.
TANALITH E 3475 : Result: Irritating to skin.
Method: By analogy

Serious eye damage/eye irritation

Eye irritation : Remarks: May cause irreversible eye damage.
TANALITH E 3475 : Result: Risk of serious damage to eyes.
Method: By analogy

Respiratory or skin sensitization

Sensitisation : Remarks: Not believed to be sensitising to skin.
TANALITH E 3475 : Result: Did not cause sensitization on laboratory animals.
Method: By analogy

Germ cell mutagenicity

Germ cell mutagenicity : By analogy, Not mutagenic in Ames Test.
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Toxicology Assessment

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Further information : no data available
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12. Ecological information

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates.
TANALITH E 3475 : EC50
Species: Daphnia magna (Water flea)
Dose: By analogy 0.53 - 0.80 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to daphnia and other aquatic invertebrates.
(Chronic toxicity)
TANALITH E 3475 : Species: Daphnia magna (Water flea)
Concentration: By analogy 0.203 mg/l
Exposure time: 21 DAYS
Method: OECD Test Guideline 202

12.2 Persistence and degradability

Biodegradability : Remarks: no data available
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12.3 Bioaccumulative potential

Bioaccumulation : Remarks: no data available
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12.4 Mobility in soil

Mobility : Remarks: no data available
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12.5 Results of PBT and vPvB assessment

TANALITH E 3475 : This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT),. This mixture contains no substance considered to be very persistent nor

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very bioaccumulating (vPvB).

12.6 Other adverse effects

Additional ecological information
TANALITH E 3475 : 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 : Rinse empty containers with water and use the rinse-water to prepare the working solution.
Refer to manufacturer/supplier for information on recovery/recycling.

14. Transport information

Dangerous for Transport

ADR

14.1 UN number : 3082
14.2 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Copper(II) carbonate--copper(II) hydroxide (1:1))
14.3 Transport hazard class : 9
14.4 Packing group : III
Classification Code : M6
Hazard identification No : 90
Labels : 9
14.5 Environmentally hazardous : yes

IATA_C

14.1 UN number : 3082
14.2 Proper shipping name : Environmentally hazardous substance, liquid n.o.s.
(Copper(II) carbonate--copper(II) hydroxide (1:1))
14.3 Transport hazard class : 9
14.4 Packing group : III

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Labels : 9
14.5 Environmentally hazardous : yes

IMDG

14.1 UN number : 3082
14.2 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Copper(II) carbonate--copper(II) hydroxide (1:1))
14.3 Transport hazard class : 9
14.4 Packing group : III
Labels : 9
EmS Number 1 : F-A
EmS Number 2 : S-F
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
Legislation : Dangerous for the environment
9a
Quantity 1: 100 t
Quantity 2: 200 t

Water contaminating class : WGK 2 water endangering
(Germany)

15.2 Chemical Safety Assessment

not applicable

16. Other information

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

R20/22 Harmful by inhalation and if swallowed.
R37/38 Irritating to respiratory system and skin.
R41 Risk of serious damage to eyes.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

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.
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.
