

Tanalith

According to Regulation (EU) No 2015/830

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

1.1. Product identifier

Product name Tanalith

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

Identified uses Wood preservative

1.3. Details of the supplier of the safety data sheet

Supplier Hemel Emprenye Sanayi ve Tic.A.Ş.

İ.D.O.S.B. Vakum Cd. No:25 B-1 Özel Parsel

Tuzla/İstanbul

E-mail: hakan.milli@hemel.com.tr

Telefon: 444 98 48 Fax: (0216) 394 83 10

Contact person Hakan Milli - General Manager Asst. (Production)

1.4. Emergency telephone number

Hemel: 444 98 48

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards Not classified.

Human health Eye Dam. 1 - H318; STOT SE 3 - H335

Environment Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

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

2.2. Label elements

Label in Accordance With (EC) No. 1272/2008



Hazard Statements

H318 Causes serious eye damage. H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

EUH208 Contains Propiconazole (ISO). May produce an allergic reaction.



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Precautionary Statements

P261 Avoid breathing gas, fume, vapours or spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P304+P341 IF INHALED: If breathing is difficult, 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.

P310 Immediately call a POISON CENTER/doctor.

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

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Name	EC No.	CAS No.	Content	Classification (EC 1272/2008)
2-aminoethanol	205-483-3	141-43-5	10-30%	Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1B - H314 STOT SE 3 - H335
(Copper (II)carbonatecopper(II) hydroxide (1:1))	235-113-6	12069-69-1	10-30%	Acute Tox. 4 - H302 Eye Irrit. 2 - H319 Acute Tox. 4 - H332 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410
7 mole ethoxylated tallow amine	500-153-6	61791-26-2	1-5 %	Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410
Organic acid	-	-	1-5 %	Eye Irrit. 2 - H319
C8-C10 fatty acid	273-086-2	68937-75-7	1-5 %	Skin Corr. 1B - H314
Reaction mass of: N,N-Didecyl-N,N-dimethylamm onium Carbonate; and N,N- Didecyl-N,N-dimethylammonium Bicarbo	451-900-9	894406-76-9	0.1-1%	Acute Tox. 3 - H301 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411
Didecyldimethylammonium chloride	230-525-2	7173-51-5	0.1-1 %	Acute Tox. 4 - H302 Skin Corr. 1B - H314 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410
N,N-Dimethyl-2-hydroxypropyla mmonium chloride polymer	-	25988-97-0	0.1-1 %	Aquatic Chronic 3 - H412
Propiconazole (ISO)	262-104-4	60207-90-1	0.1-1%	Acute Tox. 4 - H302 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410
Tebuconazole (ISO)	403-640-2	107534-96-3	0.1-1%	Acute Tox. 4 - H302 Repr. 2 - H361d



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				Aquatic Acute 1 - H400(M=1) Aquatic Chronic 1 - H410(M=10)
Methanol	200-659-6	67-56-1	<0.1%	Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370

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

Composition Comments

- The data shown are in accordance with the latest EC Directives.
- See section 8 for occupational exposure limits.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Move affected person to fresh air at once. Get medical attention. For breathing difficulties, oxygen may be necessary.

Ingestion

Do not induce vomiting and do not give anything by mouth to an unconscious person. Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Skin contact

Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye contact

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately.

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

No data available.

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

No specific treatment is noted. Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media: Use foam, carbon dioxide, dry chemicals or water sprey.

5.2. Special hazards arising from the substance or mixture

Danger of fire or explosion

Product is not flammable.

Specific hazards

In case of fire, toxic gases may be formed. Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3. Advice for firefighters

Special Fire Fighting Procedures

If it can be done without any safety risk, remove containers from the area.

Avoid contaminating sewers and waterways with firefighting water

Remove unprotected people and evacuate the area.

Fire residues and contaminated extinguishing water must be discharged according to regulations.



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Protective equipment for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Face mask, protective gloves and safety helmet.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with eyes and skin. Be careful around slippery floors and surfaces in case of spillage.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Large spillages: Stop leaking if it can be done without any safety risk.

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking.

Wash contaminated area with water.

Small spillages: Wear necessary protective equipment. Collect spillage for reclamation or absorb in vermiculite, dry sand or similar

material.

6.4. Reference to other sections

For personal protection, see section 8.

See section 11 for additional information on health hazards.

For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Read and follow producer's recommendation. Avoid contact with skin and eyes. Observe good chemical hygiene practices. Wash hands and contaminated places before leaving the work area. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original package in a dry and cool place. Protect from direct sunlight. Keep away from food, drink and animal feeding stuffs. Keep away from oxidizing agents, acids and alkalines, heat sources and combustible materials. Keep container upright.

Keep only in original container. Keep container tightly closed in a cool, well-ventilated place. Hold the containers upright. Protect containers from damage.

Stora at temperatures >5 -<25 °C.

7.3. Specific end use(s)

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	Standard	TWA	(8 h)	STEL (1	5 min)	Notes
2-aminoethanol	WEL	1 ppm	2.5 mg/m ³			EU
Methanol	WEL	200ppm	260 mg/m ³			EU



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8.2. Exposure controls

Protective equipment







Process conditions

Provide eyewash, quick drench.

Engineering measures

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust.

Respiratory equipment

If a risk assessment indicates that it is necessary, use an air cleaner or a properly supplied air-supplied breathing apparatus (EN 140) that has been installed in accordance with an approved standard (EN 140).

Hand protection

Use protective gloves made of: Neoprene, nitrile, polyethylene or PVC, when there is a risk of skin contact. The most suitable glove must be chosen in consultation with the glove supplier, who can inform about the breakthrough time of the glove material. Wash with soap and water before removing the gloves (EN374).

Glove thickness:> 1.12 (mm).

Penetration time:> 1.12 (min)

Eye protection

Wear dust resistant safety goggles where there is danger of eye contact (EN 166).

Hygiene measures

DO NOT SMOKE IN WORKED PLACES!

Wash hands before each shift and before eating, smoking and before going to the toilet.

Remove all contaminated clothing immediately. In case of contact of the skin, wash immediately with soap and water.

Use a suitable skin cream to prevent the skin from drying out.

Do not eat, drink or smoke during use.

Skin protection

Wear protective clothing in case of splashes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Blue
Odour	No data available.
Odour threshold	No data available.
pH value - concentrate solution	10.91 @ 20 °C
pH value - 1% solution	No data available.
Solubility	No data available.
Initial boiling point and boiling range	No data available.
Melting Point	No data available.
Flash Point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/ Lower explosion limit	No data available.

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Auto-Ignition Temperature No data available. Vapour pressure No data available. Vapour density No data available. **Density** 1.184 g/cm3 **Relative Density** No data available. **Viscosity** 40 mPa s @ 20 °C Vapour pressure @ 20 ° C No data available. **Decomposition temperature** No data available. Partition Coefficient (N-Octanol/Water) No data available. **Explosive properties** Not explosive. **Oxidising properties** Not oxidising.

9.2. Other information

No information required.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

None known.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Not expected.

10.4. Conditions to avoid

Avoid freezing.

10.5. Incompatible materials

Acids, alkalines and oxidizing agent.

10.6. Hazardous decomposition products

In case of fire. Carbon monoxide (CO). Carbon dioxide (CO $_2$).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity- product

ATE, oral 2416.00 mg/kg
ATE, dermal 2 989.80 mg/kg
ATE, inhalation 7.05 mg/l (dust/mist)

Substance name	LD50, Oral	LD50, Dermal	LC50, inhalation.
2-aminoethanol	1515 mg/kg, rat	2504 mg/kg, rabbit	-
(Copper (II)carbonatecopper(II) hydroxide (1:1))	1350 mg/kg, rat	>2000 mg/kg, rat	1.03-5.2 mg/L, rat, 4 hours
7 mole ethoxylated tallow amine	>300 mg/kg, rat	-	-
Organic acid	3500 mg/kg, rat	>20000 mg/kg, rabbit	-



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C8-C10 fatty acid	>2000 mg/kg, rat	>2000 mg/kg, rabbit	-
Reaction mass of:	245 mg/kg, rat	>2000 mg/kg, rabbit	-
N,N-Didecyl-N,N-dimethylamm			
onium Carbonate; and N,N-Didecyl-N,N-			
dimethylammonium Bicarbonate			
Didecyldimethylammonium chloride	238 mg/kg, rat	3342 mg/kg, rabbit	-
N,N-Dimethyl-2-hydroxypropyl	>2000 mg/kg, rat	>2000 mg/kg, rat	-
ammonium chloride polymer			
Propiconazole (ISO)	1517 mg/kg, rat	>4000 mg/kg, rat	>5.8 mg/L, rat, 4 hours
Tebuconazole (ISO)	>1700 mg/kg, rat	>2000 mg/kg, rat	>5.0 mg/L, rat, 4 hours
Methanol	>1187 mg/kg, rat	-	-

Serious eye damage/irritation

Causes serious eye damage.

Skin corrosion/irritation

Based on available data the classification criteria are not met. [Based on results of similar products].

Respiratory or skin sensitisation:

Contains Propiconazole (ISO). May produce an allergic reaction.

Carcinogenicity

Based on available data the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Reproductive Toxicity

Based on available data the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Substance name	Algae	Fish	Invertebrates
2-aminoethanol	2.8 mg/L EC50 72 hours (Pseudokirchneriella subcapitata)	349 mg/L LC50 96 hours (Cyprinus carpio)	65 mg/L EC50 48 hours (water flea)
(Copper (II)carbonatecopper(II) hydroxide (1:1))	0.043 mg/L EC50 96 hours (Desmodesmus suspicatus)	0.087 mg/L LC50 96 hours (Gökkuşağı alabalığı)	0.042 mg/L EC50 48 hours (water flea)
7 mole ethoxylated tallow amine	>1 mg/L EC50 72 hours (Desmodesmus suspicatus)	>0.1 mg/L LC50 96 hours (Danio rerio)	>1 mg/L EC50 48 hours (water flea)
Organic acid	>100 mg/L EC50 72 hours (Pseudokirchnerella subcapitata)	>100 mg/L LC50 96 hours (Danio rerio)	240 mg/L EC50 48 hours (water flea)
C8-C10 fatty acid	5.9 mg/L EC50 72 hours (Pseudokirchnerella subcapitata)	22 mg/L LC50 96 hours (Lepomis macrochirus)	>20 mg/l EC50 48 hours (water flea)



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Reaction mass of:	0.0152 mg/L EC50 72 hours	0.28 mg/L LC50 96 hours	0.066 mg/L EC50 48
N,N-Didecyl-N,N-dimethylamm	(Desmodesmus suspicatus)	(Lepomis	hours (water flea)
onium Carbonate; and N,N-Didecyl-		macrochirus)	
N,N-dimethylammonium Bicarbonate			
Didesildimetilamonyumklorür	=0.026 mg/L EC50 96 hours (Selenastrum capricornutum)	=0.19 mg/L LC50 96 hours (Pimephales promelas)	= 0.062 mg/l EC50 48 hours (water flea)
N,N-Dimethyl-2-hydroxypropyl ammonium chloride polymer		>10 mg/L LC50 96 hours (Danio rerio)	>10 mg/L EC50 48 hours (water flea)
Propiconazole (ISO)	0.76 mg/L EC50 (Desmodesmus subspicatus)	4.3 mg/L LC50 96 hours (Oncorhyncus mykiss)	10.2 mg/L EC50 48 hours (water flea)
Tebuconazole (ISO)	3.8 mg/L EC50 72 hours (Pseudokirchneriella subcapitata)	4.4 mg/L LC50 48 hours (Oncorhyncus mykiss)	2.79 mg/L EC50 48 hours (water flea)
Methanol	22000 mg/L EC50 96 hours (Pseudokirchneriella subcapitata)	12700 mg/L LC50 96 hours (Lepomis macrochirus)	18260 mg/L EC50 48 hours (water flea)

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

Substance name	Partition coefficient
2-aminoetanol	-1.91
Metanol	-0.77

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Discharge empty packages, waste and waste in accordance with local regulations.

The authorities will be informed about all major spills.

SECTION 14: TRANSPORT INFORMATION

General

This substance/mixture may be classified as hazardous. However, it may be dispatched as non-hazardous substance in cases when the packaging is under limited / exceptional quantity. Please follow the relevant regulations.

14.1. UN number

 UN No. (ADR/RID/ADN)
 3082

 UN No. (IMDG)
 3082

 UN No. (ICAO)
 3082

14.2. UN proper shipping name

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Copper (II)carbonate—

copper(II) hydroxide (1:1)))



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14.3. Transport hazard class(es)

ADR/RID/ADN Class 9

ADR/RID/ADN Class Class 9: Other Dangerous Substances

ADR Label No. **IMDG Class** 9 **ICAO Class/Division** 9

Transport Labels



14.4. Packing group

ADR/RID/ADN Packing group Ш Ш **IMDG Packing group ICAO Packing group** Ш

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

Yes.

14.6. Special precautions for user

Limited quantities 5 L **EMS** F-A, S-F **Emergency Action Code** •3Z **ADR Trasport Category** 3 Hazard No. (ADR) 90 **Tunnel Restriction Code** (-) **Excepted quantities** E1

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

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

Highly Flammable Liquid Regulations 1972.

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG (108).

EU Legislation

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. System of specific information relating to Dangerous Preparations. 2001/58/EC.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.



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SECTION 16: OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement on International Carriage of Dangerous Goods by Road.

ADN: European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.

RID: European Agreement on International Carriage of Dangerous Goods by Rail.

IATA: International Air Transport Association.

ICAO-TI: Technical Specification for Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

TWA: Time weighted average STEL: Short Term Exposure Limit ATE: Estimated value of acute toxicity EC No: European Community number CAS: Chemical Theory Service.

LD50: Substance that causes 50% (half) death in the test animals group (Median Fatal Dose).

LC50: Substance concentration causing 50% (half) death in the test animals group.

EC50: Effective Concentration of the substance causing the maximum of 50%.

PBT: Persistent, Bioaccumulative and Toxic substance.

vPvB: Very Permanent, Very Bioaccumulative. SEA: Classification, labeling, packaging regulation

DNEL: Derivative Inactive Level

PNEC: Estimated Unaffected Concentration BHOT: Specific Target Organ Toxicity

Classification justification

Eye Dam. 1 - H318 : Calculation method STOT SE 3 - H335 : Calculation method Aquatic Acute 1 - H400 : Calculation method Aquatic Chronic 1 - H410 : Calculation method

Hazard Statements In Full

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

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.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H361d Suspected of damaging the unborn child.

H370 Causes damage to organs.

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.

H412 Harmful to aquatic life with long lasting effects.

Revision Comments

This is the first issue.



Revision 0.1

SAFETY DATA SHEET

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Information Sources

This SDS is prepared based on the information received from the product owner. European Chemicals Agency, http://echa.europa.eu/

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Issued Note

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