

SAFETY DATA SHEET

Tanagard 3900

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 Tanagard 3900

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

Identified uses Preservatives for liquid-cooling and processing systems

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/Istanbul
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

Tel: 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 Acute Tox. 4 - H302; Skin Corr. 1B - H314; Eye Dam. 1 - H318; Skin Sens. 1 - H317
Environment Aquatic Chronic 2 - H411

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

2.2. Label elements

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



Signal word Danger

Contains 2-octyl-2H-isothiazol-3-one; reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)

Hazard Statements

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.



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Precautionary Statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P363	Wash contaminated clothing before reuse.
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-octyl-2H-isothiazol-3-one	247-761-7	26530-20-1	3-7 %	Acute Tox. 4 - H302 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1)	---	55965-84-9	1-5 %	Acute Tox.3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410
Copper nitrate	---	10031-43-3	0.1-1 %	Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Aquatic Acute 1 - H400

Specific Concentration limits

Name	
5-Chloro-2-methyl-4-isothiazolin-3-one] 2-Methyl-2H-isothiazol-3-one	Skin Corr. 1B; H314: C ≥ 0,6 % Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 % Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 % Skin Sens. 1; H317: C ≥ 0,0015 %
2-octyl-2H-isothiazol-3-one	Skin Sens. 1 - H317 C ≥ 0,05 %

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Composition Comments

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



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SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Information

Immediate medical attention is required.

Inhalation

Remove to fresh air. Call a doctor or poison control center immediately. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

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. Wash contaminated clothes before reuse. Remove contaminated clothes and shoes. Get medical attention.

Eye contact

Immediate medical attention is required. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Do not rub the affected area. Get medical attention immediately.

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

Inhalation Harmful by inhalation. Avoid breathing vapours or mists.

Eye contact Causes serious eye damage.

Skin contact May cause sensitisation by skin contact. May cause burns.

Ingestion Ingestion causes burns of the upper digestive and respiratory tracts.

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 carbon dioxide, water spray or fog. Use extinguishing measures that are appropriate to local circumstances.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards

In case of fire, toxic gases may be formed.

5.3. Advice for firefighters

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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.

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6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Local authorities should be notified about big spillages. Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Dam up. Take up mechanically and place in appropriate containers for disposal.

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

Keep container tightly closed in a dry and well-ventilated place. Keep/store only in original container.

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

Occupational exposure limits

Name	TWA (8 h)		STEL (15 min)		Notes
2-octyl-2H-isothiazol-3-one	---	0,05 mg/m ³	--	--	Germany
reaction mass of: 5-chloro-2-methyl-4-isothiazolin -3-one and 2-methyl-4-isothiazolin-3-one (3:1)	--	0,05 mg/m ³	--	--	Austria
Copper nitrate	---	1 mg/m ³	--	--	Finland

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

In case of inadequate ventilation wear respiratory protection.

Hand protection

Use protective gloves made of: Nitrile rubber, 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).



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Glove thickness:> 1.12 (mm).
Penetration time:> 480 min

Eye protection

Wear safety glasses with side shields.

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 impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Environmental protections

Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Light green
Odour	No data available.
Odour threshold	No data available.
pH value	5
Solubility	Completely soluble.
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.
Auto-ignition Temperature	No data available.
Vapour pressure	No data available.
Vapour density	No data available.
Density	1.06 g/cm ³
Relative Density	No data available.
Viscosity	No data available.
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 applicable



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9.2. Other information

No information required.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

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

Strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

In case of fire. Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity- product

ATE, oral	1501 mg/kg
ATE, dermal	3584 mg/kg
ATE, inhalation	6,14 mg/l (dust/mist)

Serious eye damage/irritation

Causes serious eye damage.

Skin corrosion/irritation

Causes severe skin burns.

Respiratory or skin sensitisation:

May cause an allergic skin reaction.

Carcinogenicity

Based on available data the classification criteria are not met.

STOT-single exposure

Based on available data the classification criteria are not met.

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.

Aspiration Toxicity

Based on available data the classification criteria are not met.



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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

Substance name	Algae	Fish	Invertebrates
2-octyl-2H-isothiazol-3-one	0.084 mg/L EC50 72h (Desmodesmus suspicatus)	0.03 mg/L LC50 96h (Oncorhynchus mykiss)	0.42 mg/L EC50 48h (Daphnia magna)
reaction mass of: 5-chloro-2-methyl-4-isothiazolin -3-one and 2-methyl-4-isothiazolin-3-one (3:1)	0.027 mg/L EC50 72h (Pseudokirchneriella subcapita)	0.19 mg/L LC50 96h (Oncorhynchus mykiss)	0.16 mg/L EC50 48h (Daphnia magna)
Copper nitrate	0.085 mg/L EC50 72h (Pseudokirchneriella subcapitata)	0.286 LC50 96h (Oncorhynchus kisutch)	

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

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)	1760
UN No. (IMDG)	1760
UN No. (ICAO)	1760

14.2. UN proper shipping name

Proper Shipping Name CORROSIVE LIQUID, N.O.S. (2-octyl-2H-isothiazol-3-one; reaction mass of:5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1))

14.3. Transport hazard class(es)

ADR/RID/ADN Class	8
ADR/RID/ADN Class	Class 8: Corrosive substances
ADR Label No.	8
IMDG Class	8

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ICAO Class/Division 8
Transport Labels



14.4. Packing group

ADR/RID/ADN Packing group III
IMDG Packing group III
ICAO Packing group III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
Yes.

14.6. Special precautions for user

Limited quantities 5 L
EMS F-A, S-B
Emergency Action Code 2X
ADR Transport Category 3
Hazard No. (ADR) 80
Tunnel Restriction Code (E)
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.

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.



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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
BHOT: Specific Target Organ Toxicity

Classification justification

Acute Tox. 4 - H302: : Calculation method
Skin Corr. 1B - H314 : Calculation method
Eye Dam. 1 - H318 : Calculation method
Skin Sens. 1 - H317 : Calculation method
Aquatic Chronic 2 - H411 : Calculation method

Hazard Statements In Full

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic 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.
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.

Information Sources

This SDS is prepared based on the information received from the product owner.
ECHA – www.echa.europa.eu

Revision Comments

This is the first issue.

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Issued Note

This SDS is prepared based on the information and documents received from product owner. CRAD or/and SDS author shall not be responsible for incorrect prepared of SDS and pecuniary loss or intangible damages because of deficient or wrong information and documents which comes from product owner.



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