



SAFETY DATA SHEET

According to "Regulation on Preparation of Safety Data Sheets on Hazardous Substances and Mixtures (Official Gazette No:13.12.201429204)

Revision: 29.11.2017 Form No. GBF-01 Rev.No:3

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

- **Product information:** Water Soluble Cationic Surface Active Preparation
Product Name: ANTIMIC
- **Name and Address of Company;**
NanoTego Nano Teknolojik Ürünler Araştırma Geliştirme Kimya Sanayi ve Ticaret A.Ş.
Address: Poligon Mah. Girne Cad. No: 13/A İstinye Sarıyer İstanbul
- **Information about safety:** Yusuf Menciloğlu
- **Emergency telephone number:** In case of poisoning if necessary call 114 (UZEM)
the national poison center.
- **Emergency response center:** 112
- **Fire department:** 110

2. Hazards identification

2.1 Physical Hazard

The mixture hasn't got any physical hazard.

Potential Acute Effect on Health

The mixture hasn't got any health hazard.

Effects on environment

The mixture hasn't got any environment hazard.

2.2 Classification of the substance or mixture Labelling according to SEA Regulation;

Signal pictograms: Not classified.

Signal word: Not classified.

Hazard statements: Not classified.

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children.

P103: Read label before use.

P501: Dispose of contents/container to in accordance with local regulation.

Additional information: all precautionary statements, harmfulness definition of security and risk phrases on the subject are given in Section 16.

* Regulation on the preparation of safety data sheets on hazardous substances and mixtures (13.12.2014-Official Gazette No. 29204)

3. Composition/information on ingredients

Chemical description: Mixture

- **Containing hazardous substances:**



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Substance or component	EC NO	CAS NO	Content ,% (w/w)	Classification (SEA Regulation)
Dimethyloctadecyl[3-(trimethoxysilyl)propyl]ammonium chloride	248- 595-8	27668- 52-6	<%10	Skin Irrit. 2 H315 Aquatic Acute 1 H400 Aquatic Chronic 1H410 Eye Irrit. 2 H319
Amines , coco alkyldimethyl	263- 020-0	61788- 93-0	0,3%≤0,5%	Akut Tok 4 H302 Skin Irrit.. 1B H315 Aquatic Acute 1 H400
3-Chloropropyltrimethoxysilane	219- 787-9	2530-87- 2	≤0,2%	Not classified
Other non-hazardous component	-	-	Completed to 100 %	-

* Regulation on the preparation of safety data sheets on hazardous substances and mixtures (13.12.2014- Official Gazette No. 29204)
and evaluated according to the AB Directives 67/548/EEC or 1999/45/EC

4. First-aid measures

Skin contact: Non hazardous in normal use.

Eye contact: Wash eyes with water for several minutes.

Inhalation: Expose to fresh air. Get medical attention if necessary.

Ingestion: Drink milk or water. Get medical help. Organic substances, alcohol, acids and detergents remove the effect of the product.

5. Fire-fighting measures

5.1 Firefighting

Suitable extinguishing media: Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), water spray.

Non-Suitable extinguishing media: Full water jet.

5.2. Special hazards arising from the product:

In the event of fire, the following may occur:

Carbon monoxide and carbon dioxide

5.3. Special protective equipment for fire-fighting officials

Employee in charged should use independent air assisted breathing apparatus and chemical protective clothing during fire fight.

Cool the packages with water in the fire area. Take out the staff to the safe area. Avoid polluting the environment by using more fire extinguishers than necessary. Fire fighting residues should not be allowed to reach sewage and groundwater.



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6. Accidental release measure

6.1 Personal Protective Precautions

No special measures are required.

6.2 Environmental Precautions

Prevent mixing into sewer / surface water / groundwater.

Dispose of contents / container in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Absorb with an absorbent material (eg silica gel, acid binder, multi-purpose binder).

Plow into a suitable container for disposal.

6.4 Reference to other sections

Follow the protective instructions (see chapters 7 and 8).

For disposal information see. Section 13.

7. Handling and storage

7.1 Handling

Substance / protective measures for safe handling

Keep container tightly closed. Provide adequate ventilation. Avoid contact with skin, eyes and clothing.

Measures against fire and explosion protection

Keep the cabinet away from flammable substances.

7.2 Conditions for safe storage including in the dispute:

Requirements for warehouses and containers

Keep container tightly closed in a dry, cool and well-ventilated place.

Detailed information on storage conditions

Keep away from food, drinks and animal feed.

7.3. Last specific uses

Disinfection by spraying / wiping

8. Exposure controls/personal protection

8.1. Control parameters:

Exposure limits

8.2. Exposure controls:

Suitable technical control facilities: Ensure adequate ventilation, especially in confined spaces.

Protective and hygiene measures: Avoid breathing vapors and spray fog. Wash your hands before and during work. Do not eat, drink or smoke during use. Avoid contact with skin, eyes and clothing. Remove contaminated clothing and wash before reuse.

Eye / Face Protection: Eyes need not be protected when used properly, otherwise covered safety goggles should be worn.

Skin Protection: Long sleeve work clothes (EN368)

Protection of hands: No special precautions are necessary, but if you are exposed to prolonged or repeated exposure, wear suitable protective gloves to avoid sensitization.

Preservation of the Respiratory System: Normally no personal respiratory protective equipment is required.



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In case of insufficient ventilation, wear suitable respiratory equipment. (gas filter type A) (EN 141).

Thermal Damage: No data available.

8.2.3. Environmental Exposure Control

To avoid effects on people and the environment, work in accordance with the instructions.

9. Physical and chemical properties

9.1 Information of physical and chemical properties

Appearance	Transparent liquid
Odour	characteristic
Colour	No data available
9.2 Other information	
Relative density	1,01 (at 25C)
Flash point	No data available
Boiling point	> 99 C
Freezing point	-5C
Explosion hazard	No data available
Viscosity	<100 cps (at 25C)
Solubility (Water/Alcohol/ Oil)	Water: can be emulsify
Vapour pressure (20C)	No data available
Distribution factor (n-octanol/water)	No data available
pH value	7,5 ±0,5
Melting point	No data available
Flammability	No data available
Conductivity	No data available

10. Stability and reactivity

10.1. Reactivity: Maintains stability at ambient temperature when used and stored according to specifications.

10.2. Chemical stability: Stable.

10.3. Possibility of Hazardous reaction : Oxidizing materials and reactions.

10.4. Conditions to avoid: Steam / air mixtures are explosive in case of overheating. The heating can ignite flammable vapors.

10.5. Incompatible materials: Oxidizing materials.

10.6. Hazardous decomposition products: carbon monoxide and carbon dioxide.



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11. Toxicological information

11.1 Information about toxic effects Acute Toxicity:

Substance or component (CAS)	LD50 oral	LD50 dermal	LC50 Inhalation toxicity
Dimethyloctadecyl[3-(trimethoxysilyl)propyl]ammonium chloride	12,270 mg/kg (rat)	-	-

- Eye irritation: Not classified.
- Skin irritation: Not classified.
- Sensitizing Effect: Based on available information, classification criteria do not apply.
- Specific target organ toxicity (one-time exposure): Based on available information, classification criteria do not apply.
- Severe effects with repeated and prolonged exposure: Based on available information, classification criteria do not apply.
- Toxic effects on the carcinogenic / mutagenic / reproductive system: Based on available information, classification criteria do not apply.
- Aspiration hazard: Based on available information, classification criteria do not apply.

12. Ecological information

12.1 Eco-toxicity

Wild duck LC50> 5620 PPM

Wild duck LD50> 1590 MGK

Rainbow trout LC50 0.56 PPM

Lunar LC50 0.51 PPM

12.2. Persistency and degradation: No data available

12.3. Bioaccumulative potential: No data available

12.4. Mobility: No data available

12.5 Results of the PBT and vPvB assessment: According to Regulation (EC) No 1907/2006

(REACH), none of the substances in this product are PBT (persistent, bioaccumulative, toxic) / vPvB (very persistent, very bioaccumulative).

12.6 Other adverse effects: Low hazard for water. When used in normal conditions, there are no known and expected adverse effects for the environment. Do not discharge into surface waters / underground waters.



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13. Disposal considerations

13.1. Waste Treatment Methods

Appropriate disposal / product waste management, the general principles of the related regulations and in line with regulations, control of hazardous waste, waste identification number / waste descriptions must be collected in accordance with a special way local regulations for each industry class and operations.

Bury or burn empty boxes, drug residues, dead mice and rats on the ground. Do not throw them into trash can or garbage fields.

Waste code	Description
070601	WASTES RESULTING FROM ORGANIC CHEMICAL PROCESSES; Oil, Grease, Soap, Detergent, Disinfectant and Wastes from Manufacturing, Formulation, Procurement and Use of Cosmetics (İFTK); Water-based washing liquids and master solutions Hazardous waste.

Contaminated packaging

Empty containers must be collected for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as much as possible and re-use may be provided after proper cleaning. Packages that can not be cleaned must be disposed of in the same way as the product.

14. Transport information

Road Transport

14.1. UN number

Non-hazardous

14.2. Shipping name

Non-hazardous

14.3. Transport hazard class(es)

Non-hazardous

14.4. Packing group

Non-hazardous

Hazard label: No data.

Classification Code: No data available.

Restricted Quantity: No data available.

Shipping Category: No data available.

Hazard Number: No data available.

Tunnel Restriction Code: No data.

14.5. Environmental hazards

No data available.

14.6. Special measures for users

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Shipping is only carried out in approved and proper packaging.



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Inland Waterway Transport (ADN)

14.1. UN number

Non-hazardous

14.2. Shipping name

Non-hazardous

14.3. Transport hazard class(es)

Non-hazardous

14.4. Packing group

Non-hazardous

Hazard label: No data.

Classification Code: No data available.

Restricted Quantity: No data available.

Marine Transport

14.1. UN number

Non-hazardous

14.2. Shipping name

Non-hazardous

14.3. Transport hazard class(es)

Non-hazardous

14.4. Packing group

Non-hazardous

Hazard label: No data.

Classification Code: No data available.

Restricted Quantity: No data available.

EmS: No data available.

Airway Transport

14.1. UN number

Non-hazardous

14.2. Shipping name

Non-hazardous

14.3. Transport hazard class(es)

Non-hazardous

14.4. Packing group

Non-hazardous

Hazard label: No data.

15. Regulatory information

15.1 Private security, health and environmental regulations for the substance or mixture:

It's classified and labelled in accordance with 'Regulation on preparation of safety data sheets on hazardous substances and mixtures (13.12.2014- Official Gazette No. 29204)" , the regulation on preparation and distribution of safety data sheets on hazardous materials and preparations (26/12/2008 to 27092 Rep." and EU Directives.



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16. Other information

Labelling according to SEA Regulation;

Signal pictograms: Not classified.

Signal word: Not classified.

Hazard statements: Not classified.

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children.

P103: Read label before use.

P501: Dispose of contents/container to in accordance with local regulation.

Information sources:

The key resources used in the editing of this safety data sheet are as follows:

- √ Data sheets of the raw materials and product components
- √ Preparation and regulations on the distribution of safety data sheets and attachments for dangerous substances and preparations
- √ 'Regulation on preparation of safety data sheets on hazardous substances and mixtures (13.12.2014- Official Gazette No. 29204) and attachments
- √ UN ADR, IMDG, IATA LISTS
- √ ECHA and the relevant EU directives, IUCLID (CHEMICALS INTERNATIONAL DATA INFORMATION LAW), HSDB (DANGEROUS GOODS DATA BANK)
- √ <http://www.unece.org/fileadmin/DAM/trans/danger/publi/unrec/English/part3.pdf>
- √ http://cevresagligi.thsk.saglik.gov.tr/dosya/Liste_A_-_ECHA_Under_Review_List_-_20171109.pdf

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This document is prepared utilizing the manufacturer's safety data sheets by SDS- Edited by staff experts have certified by NBC as required by the relevant regulations.

Preparation Information and communication:

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