

# SAFETY DATA SHEET ACCORDING TO REGULATION (EC) 1907/2006



**Product name: Nanotol Sanitär Cleaner**

**Creation date: 21.07.2023, Revision: 28.07.2023, version: 1.0**

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

### 1.1 Product identifier

Product name

Nanotol Sanitär Cleaner



<https://my.chemius.net/p/yluQRF/en/pd/en>

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

Relevant identified uses

Cleaning agent. Professional use. General use.

Uses advised against

No information.

### 1.3 Details of the supplier of the safety data sheet

Supplier

CeNano GmbH & Co. KG

Paul-Huber-Str. 5

84405 Dorfen, Germany

0049 8081 952530

mike.friedrich@cenano.de

### 1.4 Emergency Telephone Number

Emergency

112

Supplier

Poison centre in Berlin (Giftnotruf Berlin): +49 (0)30 30686 700

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

According to the regulation, the chemical is not classified as hazardous.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Not subject to labelling according to Regulation (EC) 1272/2008.

### 2.3 Other hazards

PBT/vPvB

No information.

Endocrine disrupting properties

No information.

#### Additional information

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. The mixture does not contain substances that are included in the list of substances with endocrine disrupting properties established in accordance with Article 59 of the REACH Regulation, in a concentration  $\geq 0.1$  w/w %. The mixture does not contain substances identified as substances with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, in a concentration  $\geq 0.1$  w/w %. *Translation required (247341)*

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

For mixtures see 3.2.

### 3.2 Mixtures

The product does not contain dangerous substances or ingredients, which would need to be declared on the safety data sheet.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General notes

Take off all contaminated clothing immediately. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician.

#### Following inhalation

Remove patient to fresh air - move out of dangerous area. Keep at rest in a position comfortable for breathing. If symptoms develop and persist, seek medical attention.

#### Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. If symptoms develop and persist, seek medical attention.

#### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

#### Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Drink plenty of water in small sips. In case of doubt or if feeling unwell seek medical help.

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

#### Following inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.

#### Following skin contact

Contact with skin may cause irritation (redness, itching).

#### Following eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

#### Following ingestion

May cause abdominal discomfort. May cause nausea/vomiting and diarrhea.

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

Treat symptomatically.

## SECTION 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. Dry chemical powder. Water spray. Alcohol resistant foam.

#### Unsuitable extinguishing media

No information.

### 5.2 Special hazards arising from the substance or mixture

#### Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>).

Nitrogen oxides (NO<sub>x</sub>).

Hydrogen chloride (HCl).

Halogenated compounds.

### 5.3 Advice for firefighters

#### Protective actions

In case of fire or heating do not breathe fumes/vapours.

#### Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

#### Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

##### Protective equipment

Use personal protective equipment (Section 8). Use breathing protection against effects of steam/dust/aerosol.

##### Precautionary measures

Ensure adequate ventilation.

##### Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing. Do not touch or walk through spilled material. Danger of slipping on spilled product.

#### For emergency responders

Use personal protective equipment.

### 6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

### 6.3 Methods and material for containment and cleaning up

#### For containment

Stem the spill if this does not pose risks.

#### For cleaning up

Ventilate the premises. Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. In case of bigger spill, dam the spillage, pump the liquid into appropriate labelled

containers, absorb the residue with absorbent material and dispose of according to local regulations. Dispose in accordance with applicable regulations (see Section 13).

#### Other information

See Section 7: safe handling.

### 6.4 Reference to other sections

See also sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### Protective measures

#### Measures to prevent fire

Ensure adequate ventilation.

#### Measures to prevent aerosol and dust generation

Avoid formation of aerosols. Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

#### Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

#### Other measures

No information.

#### Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Wear suitable protective equipment; see Section 8. Prevent small spills and leakage to avoid slip hazard.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Store in accordance with local regulations. Keep in well closed containers. Keep in a cool, dry and well ventilated place. Protect from cold (prevent freezing). Keep away from food, drink and animal feeding stuffs.

#### Packaging materials

The original container of producer.

#### Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking.

#### Storage class

No information.

#### Further information on storage conditions

No information.

### 7.3 Specific end use(s)

#### Recommendations

No information.

#### Industrial sector specific solutions

No information.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Occupational Exposure limit values

No information.

**Information on monitoring procedures**

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

**DNEL/DMEL values****For product**

No information.

**For components**

No information.

**PNEC values****For product**

No information.

**For components**

No information.

**8.2 Exposure controls****Appropriate engineering control****Substance/mixture related measures to prevent exposure during identified uses**

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not breathe vapours/aerosols. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes. Avoid prolonged and repeated contact with skin.

**Structural measures to prevent exposure**

No information.

**Organisational measures to prevent exposure**

Remove all contaminated clothes immediately and wash them before reuse.

**Technical measures to prevent exposure**

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

**Personal protective equipment****Eye and face protection**

Safety glasses with side protection (BS EN ISO 16321-1:2022).

**Hand protection**

In case of prolonged exposure, wear protective gloves (EN 374). The penetration time is determined by the protective glove manufacturer and must be observed. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. Protect hands with barrier cream. Safety gloves acid resistant.

**Appropriate materials****Skin protection**

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345:2022). Acid resistant protective clothes.

**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (BS EN 136) with filter A2-P2 (BS EN 14387).

**Thermal hazards**

No information.

**Environmental exposure controls****Substance/mixture related measures to prevent exposure**

No information.

**Instruction measures to prevent exposure**

No information.

**Organisational measures to prevent exposure**

No information.

**Technical measures to prevent exposure**

Do not allow product to reach drains, sewage systems or ground water.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical state

liquid

Colour

clear yellowish

Odour

characteristic slightly aromatic

Important health, safety and environmental information

Odour threshold	No information.
Melting point/Freezing point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	2.1
Viscosity	No information.
Solubility	Water: miscible
Partition coefficient	No information.
Vapour pressure	No information.
Density and/or relative density	No information.
Relative vapour density	No information.
Particle characteristics	No information.

### 9.2 Other information

Explosive properties	No information.
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## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under recommended transport or storage conditions.

### 10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3 Possibility of hazardous reactions

The product is stable under recommended storage and handling conditions.

### 10.4 Conditions to avoid

No special precautions required. Consider the directions for use and storage.

### 10.5 Incompatible materials

Strong acids.  
Strong bases. Strong oxidising agents. Reducing agents.

### 10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### (a) Acute toxicity

No information.

#### Additional information

The product is not classified as acutely toxic.

#### (b) Skin corrosion/irritation

No information.

#### Additional information

The product is not classified as irritating to the skin.

#### (c) Serious eye damage/irritation

No information.

#### Additional information

The product is not classified as an irritant to the eyes.

#### (d) Respiratory or skin sensitisation

No information.

#### Additional information

The product is not classified as sensitising.

#### (e) (Germ cell) mutagenicity

No information.

#### (f) Carcinogenicity

No information.

#### (g) Reproductive toxicity

No information.

#### Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

#### (h) STOT-single exposure

No information.

#### Additional information

STOT SE (single exposure): Not classified.

#### (i) STOT-repeated exposure

No information.

#### Additional information

STOT RE (repeated exposure): Not classified.

#### (j) Aspiration hazard

No information.

#### Additional information

Aspiration hazard: Not classified.

#### Symptoms related to the physical, chemical and toxicological characteristics

No information.

#### Interactive effects

No information.

## 11.2 Information on other hazards

### Endocrine disrupting properties

No information.

### Other information

No information.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Acute (short-term) toxicity

No information.

#### Chronic (long-term) toxicity

No information.

### 12.2 Persistence and degradability

#### Abiotic degradation, physical- and photo-chemical elimination

No information.

#### Biodegradation

No information.

#### Additional information

The surfactants used in this product comply with the criteria for biodegradability under Regulation 648/2004/EC. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

### 12.3 Bioaccumulative potential

#### Partition coefficient

No information.

#### Bioconcentration factor (BCF)

No information.

### 12.4 Mobility in soil

#### Known or predicted distribution to environmental compartments

No information.

#### Surface tension

No information.

#### Adsorption/Desorption

No information.

### 12.5 Results of PBT and vPvB assessment

No evaluation.

### 12.6 Endocrine disrupting properties

No information.

**12.7 Other adverse effects**

No information.

**12.8 Additional information****For product**

Product is not classified as dangerous for environment.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Product / Packaging disposal****Waste chemical**

Dispose of in accordance with applicable waste disposal regulation. Dispose the product to an authorised collector/remover of waste/company performing waste recovery.

**Waste codes / waste designations according to LoW**

20 03 99 - municipal wastes not otherwise specified

**Packaging**

Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities.

**Waste codes / waste designations according to LoW**

No information.

**Waste treatment-relevant information**

No information.

**Sewage disposal-relevant information**

No information.

**Other disposal recommendations**

No information.

**SECTION 14: TRANSPORT INFORMATION**

ADR/RID	IMDG	IATA	ADN
<b>14.1 UN number or ID number</b>			
Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.
<b>14.2 UN proper shipping name</b>			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
<b>14.3 Transport hazard class(es)</b>			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
<b>14.4 Packing group</b>			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
<b>14.5 Environmental hazards</b>			
NO	NO	NO	NO
<b>14.6 Special precautions for user</b>			

Limited quantities Not given/not applicable	Limited quantities Not given/not applicable		Limited quantities Not given/not applicable
14.7 Maritime transport in bulk according to IMO instruments			
	Not given/not applicable		

## SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)  
not applicable

Ingredients according to Regulation (EC) No 648/2004 on detergents  
No information.

#### Special instructions

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: OTHER INFORMATION

#### Indication of changes

No information.

#### Key literature references and sources for data

MSDS, Nanotol Sanitär Cleaner, CeNano GmbH & Co.KG, date: 21.6.2017, version: 1.00

#### Abbreviations and acronyms

ATE - Acute Toxicity Estimate  
 ADR - Agreement concerning the International Carriage of Dangerous Goods by Road  
 ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 CEN - European Committee for Standardisation  
 C&L - Classification and Labelling  
 CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
 CAS# - Chemical Abstracts Service number  
 CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
 CSA - Chemical Safety Assessment  
 CSR - Chemical Safety Report  
 DMEL - Derived Minimal Effect Level  
 DNEL - Derived No Effect Level  
 DPD - Dangerous Preparations Directive 1999/45/EC  
 DSD - Dangerous Substances Directive 67/548/EEC  
 DU - Downstream User  
 EC - European Community  
 ECHA - European Chemicals Agency  
 EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
 EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
 EEC - European Economic Community  
 EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC50 - Lethal Concentration to 50 % of a test population  
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

**List of relevant H phrases**

No information.



- ☑ Provided correct labelling of the product
- ☑ Compliance with the local legislation
- ☑ Provided correct classification of the product
- ☑ Provided adequate transport data

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*The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.*