



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

TOP EFEKT SANIT

Creation date 10th September 2007
Revision date 28th January 2021 Version 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier** TOP EFEKT SANIT
Substance / mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Product designed for everyday cleaning of the toilets. Effectively removes inorganic impurities, dripstone, limescale and rust
Mixture uses advised against
not available
- 1.3. Details of the supplier of the safety data sheet**
Manufacturer
Name or trade name TENZI Sp. z o.o.
Address Skarbimierzyce 20, Dołuje, 72-002
Poland
VAT Reg No PL8512583405
Phone +48 91 3119777
E-mail info@tenzi.pl
Web address www.tenzi.pl
Competent person responsible for the safety data sheet
Name technolog@tenzi.pl
- 1.4. Emergency telephone number**
European emergency number: 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is classified as dangerous.

Skin Irrit. 2, H315
Eye Irrit. 2, H319

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse effects on human health and the environment
Causes serious eye irritation. Causes skin irritation.

- 2.2. Label elements**
Hazard pictogram



Signal word
Warning

Hazard statements
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements
P280 Wear protective gloves.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental information



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5-<15 % anionic surfactants, perfumes, Hexyl cinnamal

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 5949-29-1 EC: 201-069-1 Registration number: 01-2119457026-42	Citric acid	<5	Eye Irrit. 2, H319	
CAS: 68891-38-3 EC: 500-234-8 Registration number: 01-2119488639-16-XXXX	Sodium Lauryl Ether Sulfate	<4	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412 Specific concentration limit: Eye Irrit. 2, H319: 5 % ≤ C < 10 % Eye Dam. 1, H318: C ≥ 10 %	
CAS: 85536-14-7 EC: 287-494-3 Registration number: 01-2119490234-40-XXXX	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs	<2,5	Acute Tox. 4, H302 Skin Corr. 1C, H314 Aquatic Chronic 3, H412	

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Provide medical treatment if skin irritation persists.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

DO NOT INDUCE VOMITING - even the induced vomiting can cause complications as in case of detergents and other foaming substances.



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

If inhaled

Not expected.

If on skin

Causes skin irritation.

If in eyes

Causes serious eye irritation.

If swallowed

Irritation, nausea.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in a tightly closed, original plastic container (high density polyethylene HDPE). Store this product in a dry environment that will be maintained at 5°C - 35°C temperature with a good ventilation system and an easy washable, nonabsorbable alkaline resistant floor. DO NOT expose the product to sunlight and keep away from heat, frost, sparks, flame and source of ignition.

Storage temperature

min 5 °C, max 35 °C

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains no substances for which occupational exposure limits are set.



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DNEL

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Dermal	170 mg/kg	Local chronic effects	
Workers	Inhalation	12 mg/m ³	Local chronic effects	
Workers	Inhalation	12 mg/m ³	Local acute effects	
Consumers	Dermal	85 mg/kg	Local chronic effects	
Consumers	Inhalation	3 mg/m ³	Local chronic effects	
Consumers	Oral	0.85 mg/kg	Local chronic effects	
	Inhalation	3 mg/m ³	Local acute effects	

Sodium Lauryl Ether Sulfate

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Dermal	2750 mg/kg	Local chronic effects	
Workers	Inhalation	175 mg/kg	Local chronic effects	
Consumers		1650 mg/kg	Local chronic effects	
Consumers	Inhalation	52 mg/m ³	Local chronic effects	
Consumers	Food chain	15 mg/m ³	Local chronic effects	

PNEC

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs

Route of exposure	Value	Determining method
Drinking water	0.287 mg/l	
Seawater	0.0287 mg/l	
Water (intermittent release)	0.0167 mg/l	
Freshwater sediment	0.287 mg/kg	
Sea sediments	0.287 mg/kg	
Soil (agricultural)	35 mg/kg	
Microorganisms in wastewater treatment plants	3.43 mg/l	

Sodium Lauryl Ether Sulfate

Route of exposure	Value	Determining method
Drinking water	0.24 mg/l	
Seawater	0.024 mg/l	
Freshwater sediment	5.45 mg/kg	
Sea sediments	0.545 mg/kg	
Microorganisms in wastewater treatment plants	10 mg/l	
Soil (agricultural)	0.946 mg/kg	

8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer.



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Respiratory protection

It is not needed.

Thermal hazard

Data not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Color	pink
Odour	characteristic of the composition used for
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	1 (undiluted)
Kinematic viscosity	data not available
Solubility in water	soluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1,035 - 1,080 g/cm ³
Relative vapour density	data not available
Particle characteristics	data not available
Form	gel

9.2. Other information

not available

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

No toxicological data is available for the mixture.



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Acute toxicity

Based on available data the classification criteria are not met.

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Determining method	Source
Oral	LD ₅₀		1470 mg/kg		Rat (Rattus norvegicus)			karta charakt erystyki
Skin	LD ₅₀		2000 mg/kg		Rat			karta charakt erystyki

Sodium Lauryl Ether Sulfate

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Determining method	Source
Oral	LD ₅₀		>2000 mg/kg		Rat (Rattus norvegicus)			karta charakt erystyki
Skin	LD ₅₀		>2000 mg/kg		Rat (Rattus norvegicus)			karta charakt erystyki
Oral (drinking water)	NOAEL	OECD 416	>300 mg/kg		Rat (Rattus norvegicus)	F/M		karta charakt erystyki
Oral (drinking water)	NOAEL (F1)	OECD 416	>300 mg/kg		Rat (Rattus norvegicus)	F/M	Reproduction	karta charakt erystyki
Oral	NOAEL	OECD 414	>1000 mg/kg	10 day	Rat (Rattus norvegicus)			karta charakt erystyki
Oral	NOAEL	OECD 414	>1000 mg/kg	10 day	Rat (Rattus norvegicus)	F		karta charakt erystyki
Oral	NOAEL	OECD 408	>225 mg/kg	90 day	Rat (Rattus norvegicus)			karta charakt erystyki

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.



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Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

not available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Data for the mixture are not available.

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LC ₅₀		>1-10 mg/l	96 hour	Fishes		karta charakterystyki
EC ₅₀	OECD 202	>1-10 mg/l	48 hour	Crustaceans (Daphnia magna)		karta charakterystyki
NOEC		>4 mg/l	28 day	Algae and other aquatic plants		karta charakterystyki
LC ₅₀		>1000 mg/kg		Invertebrates		karta charakterystyki
EC ₅₀	OECD 208	167 mg/kg	21 day	Higher plants		karta charakterystyki
EC ₅₀	OECD 208	289 mg/kg	21 day	Higher plants		karta charakterystyki
EC ₅₀	OECD 208	316 mg/kg	21 day	Higher plants		karta charakterystyki

Sodium Lauryl Ether Sulfate

Parameter	Method	Value	Time of exposure	Species	Environment	Source
LD ₅₀	OECD 203	>1-10 mg/l	96 hour	Fishes (Branchydanio rerio)		karta charakterystyki
NOEC		1.2 mg/l		Fishes (Branchydanio rerio)		karta charakterystyki
EC ₅₀	OECD 202	>1-10 mg/l	48 hour	Other aquatic organisms (Daphnia magna)		karta charakterystyki
NOEC	OECD 211	>0.1-1.0 mg/l	21 day	Daphnia (Daphnia magna)		karta charakterystyki



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Sodium Lauryl Ether Sulfate

Parameter	Method	Value	Time of exposure	Species	Environment	Source
EC ₅₀	OECD 201	>10-100 mg/l	72 hour	Algae (Desmodesmus subspicatus)		karta charakterystyki
EC10		10000 mg/l		Bacteria (Pseudomonas putida)		karta charakterystyki

Chronic toxicity

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs

Parameter	Value	Time of exposure	Species	Environment	Source
NOEC	>1-10 mg/l	32 day	Crustaceans		karta charakterystyki
NOEC	1 mg/l	28 day	Fishes		karta charakterystyki

12.2. Persistence and degradability

Surfactants are biodegradable according to the European Parliament and Council Regulation (EC) No. 648/2004 on detergents, as amended.

12.3. Bioaccumulative potential

Data not available.

12.4. Mobility in soil

Data not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

not available

12.7. Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

07 06 04 other organic solvents, washing liquids and mother liquors *

Packaging waste type code

15 01 02 plastic packaging

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste



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SECTION 14: Transport information

- 14.1. UN number or ID number**
Not subject to ADR
- 14.2. UN proper shipping name**
not available
- 14.3. Transport hazard class(es)**
not available
- 14.4. Packing group**
not available
- 14.5. Environmental hazards**
No
- 14.6. Special precautions for user**
not available
- 14.7. Maritime transport in bulk according to IMO instruments**
not available

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th 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, as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 31 March 2004 on detergents, as amended.
- 15.2. Chemical safety assessment**
Chemical safety assessment has not been carried out for the mixture.
Citric acid: the manufacturer has performed a chemical safety assessment.
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs: the manufacturer has performed a chemical safety assessment
Sodium Lauryl Ether Sulfate: the manufacturer has performed a chemical safety assessment

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

- | | |
|------|--|
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |

Guidelines for safe handling used in the safety data sheet

- | | |
|----------------|--|
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P280 | Wear protective gloves. |

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

- | | |
|------|---|
| ADR | European agreement concerning the international carriage of dangerous goods by road |
| BCF | Bioconcentration Factor |
| CAS | Chemical Abstracts Service |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| DNEL | Derived no-effect level |
| EC | Identification code for each substance listed in EINECS |



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EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC ₅₀	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

More information

Classification procedure - calculation method.



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Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.