



# SAFETY DATA SHEET

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

## Top Efekt EXTRA

Creation date 10th August 2000  
Revision date 25th March 2022 Version 2.0

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

- 1.1. Product identifier** Top Efekt EXTRA  
Substance / mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Product designed for cleaning water-proof surfaces like linoleum, PVC, grinded stone, rubber, varnished wood, grinded clinker, ceramic tiles etc  
**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  
E-mail 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 not classified as dangerous according to Regulation (EC) No 1272/2008.  
Full text of all classifications and hazard statements is given in the section 16.

### 2.2. Label elements

#### Supplemental information

<5 % phosphonates, <5 % anionic surfactants, <5 % non-ionic surfactants, perfumes, Butylphenyl methylpropional none

### 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
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43-XXXX	ethanol	<10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 50 %	



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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 68439-54-3 Registration number: polimer	Alcohols, C11-13-branched, ethoxylated	<1	Acute Tox. 4, H302 Eye Dam. 1, H318	
CAS: 2809-21-4 EC: 220-552-8 Registration number: 01-2119510391-53-XXXX	etidronic acid	<0,3	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318	

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.

##### 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. Do not rub your eyes – it could lead to mechanical damage of the cornea. Depending on the situation, call medical rescue service or ensure medical treatment.

##### If swallowed

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

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

##### If inhaled

Not expected.

##### If on skin

Not expected.

##### If in eyes

Not expected.

##### If swallowed

Not expected.

#### 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

Accommodate extinguishing components to the location of fire.

##### Unsuitable extinguishing media

not available

#### 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

Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

### SECTION 6: Accidental release measures

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

Follow the instructions in the Sections 7 and 8.



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### 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

After removal of the product, wash the contaminated site with plenty of water.

### 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 formation of gases and vapours in concentrations exceeding the occupational exposure limits. 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 substances for which occupational exposure limits are set.

#### DNEL

ethanol

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Dermal	343 mg/kg	Systemic chronic effects		SDS
Workers	Inhalation	950 mg/m <sup>3</sup>	Systemic acute effects		SDS
Workers	Dermal	1900 mg/kg	Systemic acute effects		SDS
Consumers	Dermal	206 mg/kg	Systemic chronic effects		SDS
Consumers	Oral	87 mg/kg	Systemic chronic effects		SDS
Consumers	Inhalation	114 mg/m <sup>3</sup>	Systemic chronic effects		SDS
Consumers	Dermal	950 mg/kg	Systemic acute effects		SDS
Consumers	Inhalation	950 mg/m <sup>3</sup>	Systemic acute effects		SDS

etidronic acid

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Consumers	Oral	6.5 mg/kg	Systemic chronic effects		SDS
Consumers	Oral	6.5 mg/kg	Systemic acute effects		SDS

#### PNEC

ethanol

Route of exposure	Value	Determining method
Soil (agricultural)	0.63 mg/kg	
Microorganisms in wastewater treatment plants	580 mg/l	
Seawater	0.79 mg/l	
Freshwater sediment	3.6 mg/kg	
Drinking water	0.96 mg/l	



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Route of exposure	Value	Determining method
Drinking water	0.136 mg/l	
Seawater	0.014 mg/l	
Microorganisms in wastewater treatment plants	20 mg/l	
Freshwater sediment	59 mg/kg	
Sea sediments	5.9 mg/kg	
Soil (agricultural)	96 mg/kg	
Oral	0.012 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

It is not needed.

#### Skin protection

It is not needed.

#### 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
Colour	green
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	48 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	8 (undiluted at 20 °C)
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	data not available
Relative density	0,982 g/cm <sup>3</sup> (+-) 0,020
Form	liquid, green liquid

### 9.2. Other information

Flash point: based on a similar product Testing the capacity of sustaining the burning of liquid (ISO 9038: 2005P) - does not have the ability to sustain burning

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

not available

### 10.2. Chemical stability

The product is stable under normal conditions.



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### 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.

#### Acute toxicity

Based on available data the classification criteria are not met.

Alcohols, C11-13-branched, ethoxylated

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Determining method	Source
Oral	LD <sub>50</sub>	>300-2000 mg/kg		Rat (Rattus norvegicus)		Based on evidence	karta charakterystyki
Dermal	LD <sub>50</sub>	>2000 mg/kg		Rat (Rattus norvegicus)		Based on evidence	karta charakterystyki

ethanol

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Determining method	Source
Oral	LD <sub>50</sub>	6.2-15 g/l		Rat (Rattus norvegicus)			SDS
Oral	LDL0	6000 mg/kg		Human			SDS
	LDL0	7060 mg/kg		Rat (Rattus norvegicus)			SDS
Inhalation	LC <sub>50</sub>	<50 mg/l	4 hour	Rat (Rattus norvegicus)			SDS

etidronic acid

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Determining method	Source
Oral	LD <sub>50</sub>	3200 mg/kg		Rat (Rattus norvegicus)		Based on evidence	karta charakterystyki
Inhalation	LD <sub>50</sub>	3000 mg/kg		Rat (Rattus norvegicus)		Based on evidence	karta charakterystyki

#### Skin corrosion/irritation

Based on available data the classification criteria are not met.

Alcohols, C11-13-branched, ethoxylated

Route of exposure	Result	Time of exposure	Species	Determining method	Source
	Not irritating		Rabbit	Based on evidence	karta charakterystyki



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Route of exposure	Result	Time of exposure	Species	Determining method	Source
	Irritating			Based on evidence	karta charakterystyki

### Serious eye damage/irritation

Based on available data the classification criteria are not met.

Alcohols, C11-13-branched, ethoxylated

Route of exposure	Result	Time of exposure	Species	Determining method	Source
	Irritating, Serious eye damage		Rabbit	Based on evidence	karta charakterystyki

etidronic acid

Route of exposure	Result	Time of exposure	Species	Determining method	Source
	Serious eye damage			Based on evidence	karta charakterystyki

### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Alcohols, C11-13-branched, ethoxylated

Route of exposure	Result	Time of exposure	Species	Sex	Determining method	Source
	No effect		Guinea-pig (Cavia aperea f. porcellus)		Based on evidence	karta charakterystyki

etidronic acid

Route of exposure	Result	Time of exposure	Species	Sex	Determining method	Source
	No effect				Based on evidence	karta charakterystyki

### Mutagenicity

etidronic acid

Result	Time of exposure	Specific target organ	Species	Sex	Determining method	Source
Negative					Based on evidence	karta charakterystyki

### Germ cell mutagenicity

Based on available data the classification criteria are not met.

Alcohols, C11-13-branched, ethoxylated

Result	Time of exposure	Specific target organ	Species	Sex	Determining method	Source
No effect					Based on evidence	karta charakterystyki



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### Carcinogenicity

Based on available data the classification criteria are not met.

etidronic acid

Route of exposure	Parameter	Value	Result	Species	Sex	Determining method	Source
			Not carcinogenic			Based on evidence	karta charakterystyki

### Reproductive toxicity

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

etidronic acid

Route of exposure	Parameter	Value	Result	Species	Sex	Determining method	Source
			Negative			Based on evidence	karta charakterystyki

### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

### Repeated dose toxicity

etidronic acid

Route of exposure	Parameter	Result	Value	Time of exposure	Species	Sex	Determining method	Source
		Negative					Based on evidence	karta charakterystyki

### Aspiration hazard

Based on available data the classification criteria are not met.

etidronic acid

Route of exposure	Result	Time of exposure	Species	Sex	Determining method	Source
	Negative				Based on evidence	karta charakterystyki

### 11.2. Information on other hazards

not available

## SECTION 12: Ecological information

### 12.1. Toxicity



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### Acute toxicity

Data for the mixture are not available.

Alcohols, C11-13-branched, ethoxylated

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
LC <sub>50</sub>	OECD 203	>1-10 mg/kg	96 hour	Fishes (Oncorhynchus mykiss)		Based on evidence	karta charakterystyki
EC <sub>50</sub>	OECD 202	>1-10 mg/l	48 hour	Daphnia (Daphnia magna)		Based on evidence	karta charakterystyki
EC <sub>50</sub>	OECD 201	>1-10 mg/l	72 hour	Algae (Desmodesmus subspicatus)		Based on evidence	karta charakterystyki

etidronic acid

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
LC <sub>50</sub>		350 mg/l	96 hour			Based on evidence	karta charakterystyki

### Chronic toxicity

etidronic acid

Parameter	Value	Time of exposure	Species	Environment	Determining method	Source
EC <sub>50</sub>	229 mg/l	48 hour	Daphnia (Daphnia magna)		Based on evidence	karta charakterystyki

## 12.2. Persistence and degradability

### Biodegradability

Alcohols, C11-13-branched, ethoxylated

Parameter	Method	Value	Time of exposure	Environment	Determining method	Result	Source
	OECD 301A	>70 %	28 day		Based on evidence	Easily biodegradable	karta charakterystyki
	OECD 301B	>60 %	28 day		Based on evidence	Easily biodegradable	karta charakterystyki

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

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.





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### 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

## SECTION 14: Transport information

### 14.1. UN number or ID number

not subject to transport regulations

### 14.2. UN proper shipping name

not relevant

### 14.3. Transport hazard class(es)

not relevant

### 14.4. Packing group

not relevant

### 14.5. Environmental hazards

not relevant

### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

### 14.7. Maritime transport in bulk according to IMO instruments

not relevant

#### Additional information

#### Air transport - ICAO/IATA

Packaging instructions passenger

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## 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.

ethanol: A Chemical Safety Assessment has been carried out

etidronic acid: A Chemical Safety Assessment has not been carried out.

Alcohols, C11-13-branched, ethoxylated: the manufacturer has performed a chemical safety assessment



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### SECTION 16: Other information

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

H225	Highly flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

#### 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
CE <sub>50</sub>	Concentration of a substance when it is affected 50% of the population
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
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 <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
LZO	Volatile organic compounds
MARPOL	International Convention for the Prevention of Pollution from Ships
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
UE	European Union
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
vPvB	Very Persistent and very Bioaccumulative
WE	Identification code for each substance listed in EINECS
Acute Tox.	Acute toxicity
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Met. Corr.	Corrosive to metals



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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.

### The changes (which information has been added, deleted or modified)

General update

### More information

Classification procedure - based on the results of flash point and sustained burning tests.

Classification procedure - calculation method.

### 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.