



# SAFETY DATA SHEET

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

## Top Efekt STR

Creation date 10th August 2000  
Revision date 14th March 2022 Version 2.0

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

- 1.1. Product identifier**  
Substance / mixture Top Efekt STR  
mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Product designed for cleaning industrial floors and surfaces resistant to water and alkaline substances  
**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 classified as dangerous.
- Skin Irrit. 2, H315  
Eye Dam. 1, H318
- 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 damage. Causes skin irritation.

- 2.2. Label elements**  
**Hazard pictogram**



**Signal word**  
Danger

**Hazardous substances**  
Alcohols, C11-13-branched, ethoxylated

2-aminoethanol  
sodium hydroxide  
**Hazard statements**

H315 Causes skin irritation.  
H318 Causes serious eye damage.

**Precautionary statements**  
P280 Wear protective gloves/eye protection.



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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.

### Supplemental information

<5 % phosphates, <5 % phosphonates, <5 % anionic surfactants, <5 % non-ionic surfactants, perfumes, Citral, Hexyl cinnamal, Limonene

### 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: 68439-54-3 Registration number: polimer	Alcohols, C11-13-branched, ethoxylated	<5	Acute Tox. 4, H302 Eye Dam. 1, H318	
CAS: 6419-19-8 EC: 229-146-5 Registration number: 01-2119487988-08- xxxx	Aminotrimethylene phosphonic acid	<2	Met. Corr. 1, H290 Eye Irrit. 2, H319	
Index: 603-030-00-8 CAS: 141-43-5 EC: 205-483-3	2-aminoethanol	<2	Acute Tox. 4, H302+H312+H332 Skin Corr. 1B, H314 Specific concentration limit: STOT SE 3, H335: C ≥ 5 %	1
Index: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5 Registration number: 01-2119457892-27- XXXX	sodium hydroxide	<0,5	Met. Corr. 1, H290 Skin Corr. 1A, H314 Specific concentration limit: Skin Corr. 1B, H314: 2 % ≤ C < 5 % Skin Corr. 1A, H314: C ≥ 5 % Eye Irrit. 2, H319: 0,5 % ≤ C < 2 % Skin Irrit. 2, H315: 0,5 % ≤ C < 2 %	

#### Notes

1 Substance with a Union workplace exposure limit.

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 unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

#### If inhaled

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



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### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. 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. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

### 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

Inhaling vapours can cause corrosion of the breathing system.

### If on skin

Causes skin irritation.

### If in eyes

Causes serious eye damage.

### If swallowed

Corrosion of the digestion system can occur.

## 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

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. 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.



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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

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

#### European Union

#### Commission Directive 2006/15/EC

Substance name (component)	Type	Value	Note
2-aminoethanol (CAS: 141-43-5)	OEL 8 hours	2,5 mg/m <sup>3</sup>	Skin
	OEL 8 hours	1 ppm	
	OEL 15 minutes	7,6 mg/m <sup>3</sup>	
	OEL 15 minutes	3 ppm	

#### DNEL

#### 2-aminoethanol

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Dermal	1 mg/kg bw/day	Local chronic effects		SDS
Workers	Inhalation	3.3 mg/m <sup>3</sup>	Local chronic effects		SDS
Consumers	Dermal	0.24 mg/kg bw/day	Local chronic effects		SDS
Consumers	Inhalation	2 mg/m <sup>3</sup>	Local chronic effects		SDS
Consumers	Oral	3.75 mg/kg/24h our	Local chronic effects		SDS

#### Aminotrimethylene phosphonic acid

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	19.4 mg/m <sup>3</sup>	Local chronic effects		karta charakterystyki
Workers	Inhalation	19.4 mg/m <sup>3</sup>			karta charakterystyki
Workers	Dermal	4.8 mg/kg bw/day	Local chronic effects		karta charakterystyki
Workers	Dermal	4.8 mg/kg bw/day			karta charakterystyki



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sodium hydroxide

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	1.0 mg/m <sup>3</sup>	Local chronic effects		SDS
Consumers	Inhalation	1.0 mg/m <sup>3</sup>	Local chronic effects		SDS

### PNEC

2-aminoethanol

Route of exposure	Value	Determining method
Drinking water	0.085 mg/l	
Seawater	0.0085 mg/l	
Water (intermittent release)	0.025 mg/l	
Microorganisms in wastewater treatment plants	100 mg/l	
Freshwater sediment	0.425 mg/kg	
Sea sediments	0.0425 mg/kg	
Soil (agricultural)	0.035 mg/kg	

Aminotrimethylene phosphonic acid

Route of exposure	Value	Determining method
Drinking water	0.46 mg/l	
Seawater	0.046 mg/l	
Freshwater sediment	150 mg/kg of dry substance	
Sea sediments	15 mg/kg of dry substance	
Soil (agricultural)	244 mg/kg of dry substance	
Microorganisms in wastewater treatment plants	20 mg/l	

## 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. 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 or face shield (based on the nature of the work performed).

### 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. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

### 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	orange
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



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Auto-ignition temperature data not available  
Decomposition temperature data not available  
pH 13 (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  
Relative density 1,049 g/cm<sup>3</sup> (+-) 0,020  
Form orange liquid

### 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.

#### Acute toxicity

Based on available data the classification criteria are not met.

#### 2-aminoethanol

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Determining method	Source
Oral	LD <sub>50</sub>	1089 mg/kg		Rat			SDS
Skin		2504 mg/kg		Rat			SDS
Inhalation		1.48 mg/l	4 hour				SDS

#### 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



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### Aminotrimethylene phosphonic acid

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Determining method	Source
Oral	LD <sub>50</sub>	2910 mg/kg		Rat (Rattus norvegicus)			karta charakterystyki
Dermal	LD <sub>50</sub>	6310 mg/kg		Rabbit			karta charakterystyki

### sodium hydroxide

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Determining method	Source
Intraperitoneally	LD <sub>50</sub>	40 mg/kg		Mouse			SDS
Oral	LDL0	500 mg/kg		Rabbit			SDS
Oral	TDLo	44 mg/kg		Rat (Rattus norvegicus)			SDS

### Skin corrosion/irritation

Causes skin irritation.

#### Alcohols, C11-13-branched, ethoxylated

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

#### Aminotrimethylene phosphonic acid

Route of exposure	Result	Time of exposure	Species	Determining method	Source
	Slightly irritating				karta charakterystyki

### Serious eye damage/irritation

Causes serious eye damage.

#### 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

#### Aminotrimethylene phosphonic acid

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



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### 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

### 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

### Carcinogenicity

Based on available data the classification criteria are not met.

### 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.

### 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.

2-aminoethanol

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
LC <sub>50</sub>		349 mg/l	96 hour	Fishes (Cyprinus carpio)			SDS
EC <sub>50</sub>		65 mg/l	48 hour	Daphnia (Daphnia magna)			SDS
ErC <sub>50</sub>		2.5 mg/l	72 hour	Algae (Selenastrum capricornutum)			SDS





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### 2-aminoethanol

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
EC <sub>50</sub>		>1000 mg/l	3 hour	Microorganisms (Photobacterium phosphoreum)			SDS

### 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

### Aminotrimethylene phosphonic acid

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
EC <sub>50</sub>		297 mg/l	48 hour	Daphnia (Daphnia magna)			karta charakterystyki
NOEC		≥25 mg/l	28 day	Daphnia (Daphnia magna)			karta charakterystyki
LC <sub>50</sub>	OECD 203	8132 mg/l	96 hour	Fishes			karta charakterystyki
LC <sub>50</sub>	OECD 203	1212 mg/l	96 hour	Fishes			karta charakterystyki
LC <sub>50</sub>		160 mg/l	96 hour	Oncorhynchus mykiss			karta charakterystyki
LC <sub>50</sub>		23 mg/l	60 day	Oncorhynchus mykiss			karta charakterystyki
EC <sub>50</sub>		94 mg/l	48 hour				karta charakterystyki
NOEC		95 mg/l	96 hour				karta charakterystyki

### sodium hydroxide

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
EC <sub>50</sub>		40.4 mg/l	48 hour	Aquatic invertebrates (Ceriodaphnia dubia)			SDS
EC <sub>50</sub>		22 mg/l	15 min	Microorganisms (Photobacterium phosphoreum)			SDS



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### Chronic toxicity

2-aminoethanol

Parameter	Value	Time of exposure	Species	Environment	Source
NOEC	1.2 mg/l	96 hour	Fishes ( <i>Oryzias latipes</i> )		SDS
NOEC	0.85 mg/l		Aquatic invertebrates ( <i>Daphnia magna</i> )		SDS
LOEC	3.6 mg/l		Fishes ( <i>Oryzias latipes</i> )		SDS

### 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

Aminotrimethylene phosphonic acid

Parameter	Method	Value	Time of exposure	Environment	Determining method	Result	Source
	OECD 301D	22-23 %	28 day			Hardly biodegradable	karta charakterystyki
EC <sub>0</sub>		200 mg/l	30 min				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.

### 12.7. Other adverse effects

Data not available.

## SECTION 13: Disposal considerations



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### 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

No

### 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

## 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.

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

Aminotrimethylene phosphonic acid: the manufacturer has not performed a chemical safety assessment

2-aminoethanol: A Chemical Safety Assessment has been carried out.

Sodium hydroxide: the manufacturer has performed a chemical safety assessment

## SECTION 16: Other information

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

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.



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H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.

### Guidelines for safe handling used in the safety data sheet

P280	Wear protective gloves/eye protection.
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.

### 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
NOEC	No observed effect concentration
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



# SAFETY DATA SHEET

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

## Top Efekt STR

Creation date	10th August 2000	Version	2.0
Revision date	14th March 2022		

Met. Corr.	Corrosive to metals
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure

### 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 - 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.