

# Safety Data Sheet

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

1.1 Product identifier:

**TOP EFEKT<sup>®</sup>** 

- **1.2 Relevant identified uses of the substance or mixture and uses advised against:** Neutral, washing-nurturing product with pleasant aroma, designed for cleaning floors. Dries fast and does not leave any stains
- **1.3** Details of the supplier of the safety data sheet:

TENZI Sp. z o.o. Skarbimierzyce 20 72-002 Dołuje tel. +48 91 3119777 fax. +48 91 3119779 E-mail address for a competent person responsible for SDS: technolog@tenzi.pl

## **1.4 Emergency telephone number:** +48 91 31 19 777 (mon. - fri. 8am - 4pm) or 112.

# **SECTION 2. HAZARDS IDENTIFICATION**

2.1. Classification of the substance or mixture: Classification according to Regulation (EC) No. 1272/2008: Eye Irrit. 2 H319 - Causes serious eye irritation. 2.2. Label elements: (According to 1272/2008/EC\*) Hazard symbols: Signal words: WARNING Hazard statements: H319 - Causes serious eye irritation. **Precautionary statements:** P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 2.3. Other hazards: Substance does not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.



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SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS				
3.1. Substances: Not applicable.				
3.2. Mixtures Compos	s: sition (according to: 648/20	04/EC):		
<ul> <li>- &lt; 5% anionic surfactants</li> <li>- &lt; 5% non-ionic surfactants</li> <li>- &lt; 5% alcohols</li> <li>- &lt; 5% phosphonates</li> <li>- aroma composition</li> <li>- auxiliary substances not classified as dangerous</li> </ul>				
	Identification	Hazardous ingredient/classification	Concentration	
CAS: WE:	64-17-5 200-578-6	Ethanol		
Index: Registration:	603-002-00-5 01-2119529230-52-XXXX	< 39 Flam Liq. 2 H225		
CAS: WE:	67-63-0 200-661-7	Isopropanol		
Index: Registration:	:: 603-117-00-0	Flam Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336	< 2%	
CAS: WE:	68439-54-3 Polymer	Non-ionic surfactants		
Index: Registration:	Not applicable Introductory	Eye Dam. 1 H318, Acute Tox. 4 H302	< 1.5%	
CAS: WE:	68891-38-3 500-234-8	Anionic surfactants	< 1%	
Index: Registration:	Not applicable 01-2119488639-16-XXXX	<ul> <li>Skin Irrit. 2 H315, Eye Dam. 1 H318, Aquatic Chronic 3 H412</li> </ul>		
CAS: WE:	2809-21-4 220-552-8	Phosphonates		
Index: Registration:	Not applicable 01-2119510391-53-XXXX	Acute Tox. 4 H302, Met. Corr. 1 H290, Eye Dam. 1 H318, skin Irrit. 2 H315	< 0.3%	

The full texts of H symbols and phrases are in section 16.

**SECTION 4. FIRST AID MEASURES** 

## 4.1. Description of first aid measures:

# Inhalation:

In case of inhalation poisoning symptoms (cough, dyspnea, dizziness) move the injured to fresh air.

# Skin contact:

If product comes in contact with the skin, flush exposed area with large amounts of water.

### Eye contact:

Flush eyes with running water (at least 15 minutes) while keeping eyelids open. Get medical attention.



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#### Ingestion:

Wash your mouth, drink about 1-2 liters of water and don't induce vomiting. Get medical attention and show them this SDS or product's label.

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

#### Inhalation:

Doesn't cause irritation of the upper respiratory tract.

#### Skin:

May cause skin irritation to allergic people.

# Eyes:

May be irritant to eyes.

Ingestion:

May cause irritation of the mucous membranes.

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

Get medical attention.

Fresh water and eye-wash preparations must be available on the worksite.

# SECTION 5. FIREFIGHTING MEASURES

## 5.1. Extinguishing media:

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and surrounding environment.

Unsuitable extinguishing media:

There are not any known extinguishing media that you shouldn't use.

- 5.2. Special hazards arising from the substance or mixture:
  - Product is non-flammable.

## 5.3. Advice for firefighters:

Firefighters should wear self-contained breathing apparatus and full protective clothing. In case of fire, warn the people nearby and evacuate unprotected and untrained personnel from hazard area. Notify relevant emergency services. If possible, remove the containers away from the influence of fire and high temperature. Water may be used to keep fire-exposed containers cool until fire is out. The after burning residues should be removed

# SECTION 6. ACCIDENTAL RELEASE MEASURES

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

### For non-emergency personnel:

Protective chemical-proof gloves (0.11 mm thick), safety glasses.



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### For emergency responders:

Protective clothes, protective chemical-proof gloves (0.11 mm thick), self-contained breathing apparatus, safety glasses.

#### 6.2. Environmental precautions:

Avoid discharging the product into sewage system and onto the ground at all costs. In case of environmental contamination, contact local authorities.

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

In case of unexpected release of the substance into the environment, inform appropriate services about the emergency and remove any source of ignition. Prevent spills from entering sewers, surface water or groundwater. If it is possible, confine and contain the spill by closing the flow of the liquid, plug the damaged container and put it into leakproof wrapping. For a larger spill, make a dike around the outside edges of the spill and use absorbent materials (sand, sawdust, minced limestone). Store clean-up materials for disposal as hazardous waste. Decontaminate polluted area with water.

### 6.4. Reference to other sections:

See section 8 and 13.

# **SECTION 7. HANDLING AND STORAGE**

## 7.1. Precautions for safe handling:

Be careful when working with this product. Use personal protection recommended in section 8 Mix only with water. DO NOT mix with any other chemical substances. People with skin allergy or respiratory system problems should not have contact with this product. Avoid risk – read this instruction sheet carefully before using the product. After usage, keep container tightly closed and keep it away from unauthorized people. Use only adequate ventilation to avoid inhalation poisoning.

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

Store in a tightly closed, original plastic container. 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, sparks, flame and source of ignition.

## 7.3. Specific end use(s):

No data available.

# **SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

8.1. Control parameters:

Please check any national occupational exposure limit values in your country.

## NDS/NDSCh/NDSP values for individual chemical substances (according to SDS or Chemical Safety Report):

### Ethanol (data for highly concentrated substance):

NDS:	1900mg/m³
NDSCh:	not identified.
NDSP:	not identified.



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#### Isopropanol (data for highly concentrated substance):

NDS: 900 mg/m<sup>3</sup> NDSCh: 1200 mg/m<sup>3</sup> NDSP: not identified.

Non-ionic surfactants (data for highly concentrated substance): NDS, NDSCh, NDSP: not identified.

Anionic surfactants (data for highly concentrated substance): NDS, NDSCh, NDSP: not identified.

Phosphonates (data for highly concentrated substance): NDS, NDSCh, NDSP: not identified.

#### DNEL /PNEC values for individual chemical substances (according to SDS or Chemical Safety Report):

#### Ethanol (data for highly concentrated substance):

### DNEL:

Group: workers, Exposure time: long-term, Exposure route: dermal, Group: workers, Exposure time: long-term, Exposure route: inhalation, Group: consumers, Exposure time: long-term, Exposure route: dermal, Group: consumers, Exposure time: long-term, Exposure route: inhalation, Group: consumers, Exposure time: long-term, Exposure route: ingestion,

#### PNEC:

0.96 mg/l
0.79 mg/l
3.60 mg/kg
0.63 mg/kg

#### Isopropanol (data for highly concentrated substance):

#### DNEL:

Group: workers, Exposure time: long-term, Exposure route: dermal, Group: workers, Exposure time: long-term, Exposure route: inhalation, Group: consumers, Exposure time: long-term, Exposure route: dermal, Group: consumers, Exposure time: long-term, Exposure route: inhalation, Group: consumers, Exposure time: long-term, Exposure route: ingestion, Value: 888 mg/kg Value: 500 mg/m<sup>3</sup> Value: 319 mg/kg Value: 89 mg/m<sup>3</sup> Value: 29 mg/kg

Value: 343 mg/kg

Value: 950 mg/m<sup>3</sup>

Value: 206 mg/kg

Value: 114 mg/m<sup>3</sup>

Value: 87 mg/kg

#### PNEC:

140.9 mg/l
140.9 mg/l
552 mg/kg
28 mg/kg

Non-ionic surfactants (data for highly concentrated substance): DNEL, PNEC: not identified.

### Anionic surfactants (data for highly concentrated substance):

# DNEL:

Group: workers, Exposure time: long-term, Exposure route: dermal, Type of effect: systemic effect, Group: workers, Exposure time: long-term, Exposure route: inhalation, Type of effect: local effect, Group: consumers, Exposure time: long-term, Exposure route: dermal, Type of effect: systemic effect, Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: systemic effect,

Creation date: 10.08.2000 Revision date: 30.12.2016 Version: 1.0 Value: 2750 mg/kg Value: 175 mg/m<sup>3</sup> Value: 1650 mg/kg Value: 52 mg/m<sup>3</sup>



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Group: consumers, Exposure time: long-term, Exposure route: ingestion, Type of effect: systemic effect, Value: 15 mg/m<sup>3</sup>

# PNEC:

Aqua (fresh water):0.24 mg/lAqua (marine water):0.024 mg/lSediment (fresh water):5.45 mg/kgSediment (marine water):0.545 mg/kgSewage treatment plant:10 mg/lSoil:0.946 mg/kg

Phosphonates (data for highly concentrated substance): DNEL, PNEC: not identified.

**NOTE:** When the concentration of substance is known, personal protective equipment should be chosen based on substance concentration in a workplace, exposure time and operations performed by the employee. In emergency situations, if substance concentration in the workplace is unknown, personal protection of highest class level should be used.

## 8.2. Exposure controls:

**RESPIRATORY PROTECTION:** Not needed.

HAND PROTECTION: Not needed.

**EYE/FACE PROTECTION:** Safety glasses.

SKIN PROTECTION: Not needed.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### 9.1. Information on basic physical and chemical properties:

Appearance:	Pink coloured liquid
Odour:	Characteristic for aroma composition used in production
Odour threshold:	No data available
pH:	7 ± 1
Melting point:	No data available
Freezing point:	No data available
Initial boiling point:	No data available
Boiling range:	No data available
Flash point:	78°C (based on similar product)
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Upper explosive limit:	No data available
Lower explosive limit:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	$0.998 \pm 0.020 \text{ g/cm}^3$



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Solubility: A) Water: B) Organic solvent:	soluble No data available
Partition coefficient N-Octan:	No data available
Partition coefficient Water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available

# 9.2. Other information:

Refractive index: 8.2% Brix ± 5%

- Degrees Brix is the content of an aqueous solution. One degree Brix is 1 gram of sucrose in 100 grams of solution and represents the strength of the solution as percentage by weight (%w/w).

## **SECTION 10. STABILITY AND REACTIVITY**

# 10.1 Reactivity:

No data available.

- **10.2 Chemical stability:** Stable under recommended storage conditions (see section 7).
- **10.3 Possibility of hazardous reactions:** No data available.

#### **10.4 Conditions to avoid:** Avoid heavily warmed rooms without ventilation and long-term exposure to sunlight.

**10.5 Incompatible materials:** No data available.

# 10.6 Hazardous decomposition products:

No data available.

# **SECTION 11. TOXICOLOGICAL INFORMATION**

## 11.1 Information on toxicological effects:

### ACUTE TOXICITY:

Inhalation:doesn't cause irritation of the upper respiratory tract.Skin contact:may cause skin irritation to allergic people.Eye contact:may cause eye irritation.Digestive system:may cause irritation of the mucous membranes.

ATEmix = 31835 (acute toxicity, orally)



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DETAILS OF PARTICULAR COMPONENTS (according to substances SDS):

Ethanol (data for highly concentrated substance):

LD50: 6200 mg/kg LC50: 95.6 mg/l/4h

### Isopropanol (data for highly concentrated substance):

LD50:	> 2000 mg/kg	(acute toxicity, orally)
LD50:	> 2000 mg/kg	(acute toxicity, dermal)
LC50:	>5 mg/l	

Doesn't cause skin irritation. Slight eye irritation. No allergic effects. High density vapours may cause narcotic effects. Negative Ames test. No carcinogenic effects. Doesn't cause any reproductive problems.

### Non-ionic surfactants (data for highly concentrated substance):

LD50:	>300-2000 mg/kg	(rat, orally)
LD50:	>2000 mg/kg	(rat, dermal)

Doesn't irritate the skin (rabbit). Contact with eyes may cause irreversible damage (rabbit). No allergic effects. No mutagenic effects. No carcinogenic effects.

#### Anionic surfactants (data for highly concentrated substance):

LD50:	>2000 mg/kg	(rat, orally)
LD50:	>2000 mg/kg	(rat, dermal)

Skin irritation and serious eye irritation detected. No allergic effect.

### Phosphonates (data for highly concentrated substance):

LD50:	1800 mg/kg	(mouse, orally)
LD50:	3000 mg/kg	(rat, inhalation)

Substance classified as irritant to skin (Skin irrit. 2). Substance classified as harmful to eyes (Eye Dam. 1).



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SECTION 12. ECOLOGICAL INFORMATION						
12.1. Toxicity:						
	he mixture ingred	lients:				
Ethanol (c	lata for highly co	ncentrated	l substance):			
LC50: EC50: EC50:	8140 mg/l/48h 9268-14221 m 5000 mg/l/7da	ng/l/48h (daphnia)				
Isopropan	nol (data for high	ly concent	rated substance):			
LC50: EC50: EC50:	> 100 mg/l/48l > 100 mg/l/48l > 100 mg/l/72l	h	(fish) (daphnia) (algae)			
Non-ionic	surfactants (data	a for highly	/ concentrated substa	ance):		
LC50: EC50: EC50:	EC50: > 1-10 mg/l/48h (Daphnia magna) (OECD 202)					
Anionic s	urfactants (data f	or highly o	concentrated substant	ce):		
LC50: NOEC: EC50: NOEC: EC50: EC10:	> 1-10 mg/l 1.2 mg/l > 1-10 mg/l/48 > 0.1-1 mg/l/2 > 10-100 mg/l 10000 mg/l	(fish) (literature data) g/l/48h (daphnia) (OECD 202) ng/l/21 days (daphnia) (OECD 211) mg/l/72h (algae) (OECD 201)				
Phosphor	nates (data for hig	ghly conce	ntrated substance):			
EC50: LC50:	$\mathbf{v}$					
The surfac	12.2. Persistence and degradability: The surfactants contained within the product comply with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents.					
Data for th	Data for the mixture ingredients:					
Subs	tance		Method		Length	Degraded percentage
Etha	anol	Easil	y biodegradable	Easily	biodegradable	Easily biodegradable
Isopro	opanol	No	data available		10 days	> 90%
Non-ionic :	surfactants	C	DECD 301 A		28 days	> 70%
Anionic s	urfactants	(	DECD 301A		28 days	> 70%
Phosphonates No data availa			data available	No o	data available	No data available



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12.3. Bioaccumulative potential:

Ethanol (data for highly concentrated substance): Log Pow: 0.05

Isopropanol (data for highly concentrated substance): Log Pow: 0.05

Non-ionic surfactants (data for highly concentrated substance): No data available.

Anionic surfactants (data for highly concentrated substance): No data available.

Phosphonates (data for highly concentrated substance): No data available.

### 12.4. Mobility in soil

The product is water soluble and may sink into groundwater systems.

### 12.5. Results of PBT and vPvB assessment:

This substance/mixture does not meet the PBT and vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects:

No data available.

# **SECTION 13. DISPOSAL CONSIDERATIONS**

### **RESIDUES AND WASTES:**

DO NOT mix with other liquid wastes. DO NOT empty into sewage system. Product should be totally used up according to its description. If it's impossible to do so, dispose of this material and its container at hazardous or special waste collection point.

### 13.1. Waste treatment methods:

Contaminated containers should be completely emptied. Several times rinse the container promptly after emptying. Empty container can be stored in containers for collection of plastic packaging, or can be delivered to specialized company for recycling.

Disposal should be in accordance with the national/international regulations.

# **SECTION 14. TRANSPORT INFORMATION**

# TRADE NAME: TOP EFEKT®

14.2. UN proper shipping name: 14.3. Transport hazard class(es):

14.1. UN Number:

14.4. Packing group:

Not applicable. Not applicable. Not applicable. Not applicable. No.

14.5. Environmental hazards: 14.6. Special precautions for user:

tions for user: For more details see Sections 6 and 8.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: No data available.



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WARNING LABELS Not applicable.

# **SECTION 15. REGULATORY INFORMATION**

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

1) COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

2) REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents.

3) COMMISSION REGULATION (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII thereto.

4) REGULATION (EC) No 1336/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 amending Regulation (EC) No 648/2004 in order to adapt it to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

5) COMMISSION REGULATION (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes V and VI thereto (surfactant derogation).

6) REGULATION (EU) No 259/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 14 March 2012 amending Regulation (EC) No 648/2004 as regards the use of phosphates and other phosphorus compounds in consumer laundry detergents and consumer automatic dishwasher detergents.

7) REGULATION (EC) No 273/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 February 2004 on drug precursors).

8) REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 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.

### 15.2. Chemical safety assessment

For mixture:

A Chemical Safety Assessment has not been carried out.

### For following mixture substances:

Ethanol:	A Chemical Safety Assessment has been carried out.
Isopropanol:	A Chemical Safety Assessment has been carried out.
Non-ionic surfactants:	No data available.
Anionic surfactants:	A Chemical Safety Assessment has been carried out.
Phosphonates:	A Chemical Safety Assessment has not been carried out.

# **SECTION 16. OTHER INFORMATION**

Information above is based on current knowledge of product in its current form. All data are presented in order to take into account safety requirements priority and not to guarantee special properties of the product. If product usage conditions are not under manufacturer control, responsibility for safe use lies with the person that uses them. The employer is obliged to inform all employees, who have contact with the product, about the risk and safety measures specified in the data sheet. Safety data presented above were prepared based on safety characteristics of substances used by the producer to compose the product and based on regulations for handling dangerous substances and their preparation. Classification of chemical mixture was done with calculation methods, based on the content of hazardous ingredients.

### The full list of symbols and H phrases from Section 2 and 3:



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Flam Liq. 2 Eye Irrit. 2 STOT SE 3 Eye Dam. 1 Acute Tox. 4 Skin Irrit. 2 Aquatic Chronic 3 Met.Corr 1	<ul> <li>Flammable liquid and vapour, category 2.</li> <li>Causes serious eye irritation, category 2.</li> <li>Specific target organ toxicity - Single exposure STOT, category 3.</li> <li>Serious eye damage, category 1.</li> <li>Acute toxicity, category 4.</li> <li>Causes skin irritation, category 2.</li> <li>Hazardous to the aquatic environment - Chronic Hazard, category 3.</li> <li>Substance/Mixture is corrosive to metals, category 1</li> </ul>
H225 H290 H302 H315 H318 H319 H336 H412	<ul> <li>Highly flammable liquid and vapour.</li> <li>May be corrosive to metals.</li> <li>Harmful if swallowed.</li> <li>Causes skin irritation.</li> <li>Causes serious eye damage.</li> <li>Causes serious eye irritation.</li> <li>May cause drowsiness or dizziness.</li> <li>Harmful to aquatic life with long lasting effects.</li> </ul>

More information on the product can be found on the specific technical data sheet which is available on www.tenzi.pl

### Training:

Course participants should be trained about how to handle this hazardous substance, about safety and work hygiene. Drivers should also be trained and obtain proper certification in accordance with the ADR requirements.

#### Expiry date:

36 months from the production date (if product is stored according to the producent recommendations)

## Changes compared to the previous version:

- general update

Updated cards versions are now available on www.tenzi.pl

This Safety Data Sheet contains 12 pages. Changes in the content by unauthorized people is prohibited.