

## TOP EFEKT<sup>®</sup> EXTRA

### Safety Data Sheet

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

**1.1 Product identifier:** TOP EFEKT<sup>®</sup> EXTRA

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

Product designed for cleaning water-proof surfaces like linoleum, PVC, grinded stone, rubber, varnished wood, grinded clinker, ceramic tiles etc.

**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:**

Product is not a hazardous mixture under applicable regulations.

**2.2. Label elements:**  
(According to 1272/2008/EC\*)

**Hazard symbols:**

Not applicable.

**Signal words:**

Not applicable.

**Hazard statements:**

Not applicable.

**Precautionary statements:**

Not applicable.

**2.3. Other hazards:**

Substance does not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

#### SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

**3.1. Substances:**

Not applicable.

**TOP EFEKT<sup>®</sup> EXTRA****Safety Data Sheet****3.2. Mixtures:****Composition (according to: 648/2004/EC):**

- < 5% anionic surfactants
- < 5% non-ionic surfactants
- < 5% phosphonates
- alcohols
- aroma composition
- auxiliary substances not classified as dangerous

| Identification                                                                                     | Hazardous ingredient/classification                                          | Concentration |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------|
| CAS: 64-17-5<br>WE: 200-578-6<br>Index: 603-002-00-5<br>Registration: 01-2119529230-52-XXXX        | <b>Ethanol</b>                                                               | < 5%          |
|                                                                                                    | Flam Liq. 2 H225                                                             |               |
| CAS: 67-63-0<br>WE: 200-661-7<br>Index: 603-117-00-0<br>Registration: 01-2119529230-52-XXXX        | <b>Isopropanol</b>                                                           | < 3%          |
|                                                                                                    | Flam Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336                          |               |
| CAS: 68439-54-3<br>WE: Polymer<br>Index: No data available<br>Registration: No data available      | <b>Non-ionic surfactants</b>                                                 | < 0.3%        |
|                                                                                                    | Eye Dam. 1 H318, Acute Tox. 4 H302                                           |               |
| CAS: 2809-21-4<br>WE: 220-552-8<br>Index: No data available<br>Registration: 01-2119510391-53-XXXX | <b>Phosphonates</b>                                                          | < 0.3%        |
|                                                                                                    | Acute Tox. 4 H302, Met. Corr. 1 H290,<br>Eye Dam. 1 H318, skin Irrit. 2 H315 |               |

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. Make sure to keep him warm and calm. Physical effort may cause pulmonary edema. Get medical attention.

**Skin contact:**

If product comes in contact with the skin, flush exposed area with large amounts of water. In case of skin changes or burns, get medical attention.

**Eye contact:**

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

**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.

## TOP EFEKT<sup>®</sup> EXTRA

### Safety Data Sheet

#### 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 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.

**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.

## TOP EFEKT<sup>®</sup> EXTRA

### Safety Data Sheet

#### 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/m<sup>3</sup>  
**NDSch:** not identified.  
**NDSP:** not identified.

**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.

## TOP EFEKT<sup>®</sup> EXTRA

### Safety Data Sheet

#### 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,       | Value: 343 mg/kg             |
| Group: workers, Exposure time: long-term, Exposure route: inhalation,   | Value: 950 mg/m <sup>3</sup> |
| Group: consumers, Exposure time: long-term, Exposure route: dermal,     | Value: 206 mg/kg             |
| Group: consumers, Exposure time: long-term, Exposure route: inhalation, | Value: 114 mg/m <sup>3</sup> |
| Group: consumers, Exposure time: long-term, Exposure route: ingestion,  | Value: 87 mg/kg              |

##### PNEC:

|                         |            |
|-------------------------|------------|
| Aqua (fresh water):     | 0.96 mg/l  |
| Aqua (marine water):    | 0.79 mg/l  |
| Sediment (fresh water): | 3.60 mg/kg |
| Soil:                   | 0.63 mg/kg |

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

##### DNEL:

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

##### PNEC:

|                         |            |
|-------------------------|------------|
| Aqua (fresh water):     | 140.9 mg/l |
| Aqua (marine water):    | 140.9 mg/l |
| Sediment (fresh water): | 552 mg/kg  |
| Soil:                   | 28 mg/kg   |

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

DNEL, PNEC: not identified.

#### 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:

Not needed.

## TOP EFEKT<sup>®</sup> EXTRA

### Safety Data Sheet

**SKIN PROTECTION:**

Not needed.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

|                                       |                                                         |
|---------------------------------------|---------------------------------------------------------|
| <b>Appearance:</b>                    | Cyan coloured liquid                                    |
| <b>Odour:</b>                         | Characteristic for aroma composition used in production |
| <b>Odour threshold:</b>               | No data available                                       |
| <b>pH:</b>                            | 8 ± 1                                                   |
| <b>Melting point:</b>                 | No data available                                       |
| <b>Freezing point:</b>                | No data available                                       |
| <b>Initial boiling point:</b>         | No data available                                       |
| <b>Boiling range:</b>                 | No data available                                       |
| <b>Flash point:</b>                   | 48°C (based on similar product)                         |
| <b>Evaporation rate:</b>              | No data available                                       |
| <b>Flammability (solid, gas):</b>     | No data available                                       |
| <b>Upper flammability limit:</b>      | No data available                                       |
| <b>Lower flammability limit:</b>      | No data available                                       |
| <b>Upper explosive limit:</b>         | No data available                                       |
| <b>Lower explosive limit:</b>         | No data available                                       |
| <b>Vapour pressure:</b>               | No data available                                       |
| <b>Vapour density:</b>                | No data available                                       |
| <b>Relative density:</b>              | 0.982 ± 0.020 g/cm <sup>3</sup>                         |
| <b>Solubility:</b>                    |                                                         |
| <b>A) Water:</b>                      | soluble                                                 |
| <b>B) Organic solvent:</b>            | No data available                                       |
| <b>Partition coefficient N-Octan:</b> | No data available                                       |
| <b>Partition coefficient Water:</b>   | No data available                                       |
| <b>Auto-ignition temperature:</b>     | No data available                                       |
| <b>Decomposition temperature:</b>     | No data available                                       |
| <b>Viscosity:</b>                     | No data available                                       |
| <b>Explosive properties:</b>          | No data available                                       |
| <b>Oxidising properties:</b>          | No data available                                       |

**9.2. Other information:**

**Refractive index:** 10.2% 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).

Does not have the ability to sustain burning.

#### SECTION 10. STABILITY AND REACTIVITY

**10.1 Reactivity:**

Flammable mixture.

## TOP EFEKT<sup>®</sup> EXTRA

### Safety Data Sheet

**10.2 Chemical stability:**

Stable under recommended storage conditions (see section 7).

**10.3 Possibility of hazardous reactions:**

Not applicable.

**10.4 Conditions to avoid:**

Avoid heavily warmed rooms without ventilation and long-term exposure to sunlight.

**10.5 Incompatible materials:**

None.

**10.6 Hazardous decomposition products:**

Carbon monoxide

## 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 = 134932 (acute toxicity, orally)

**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.

## TOP EFEKT<sup>®</sup> EXTRA

### Safety Data Sheet

#### 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.

#### 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).

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity:

#### Data for the mixture ingredients:

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

LC50: 8140 mg/l/48h (fish)  
EC50: 9268-14221 mg/l/48h (daphnia)  
EC50: 5000 mg/l/7days (algae)

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

LC50: > 100 mg/l/48h (fish)  
EC50: > 100 mg/l/48h (daphnia)  
EC50: > 100 mg/l/72h (algae)

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

LC50: > 1-10 mg/l/96h (Cyprinus carpio) (OECD 203)  
EC50: > 1-10 mg/l/48h (Daphnia magna) (OECD 202)  
EC50: > 1-10 mg/l/72h (Scenedesmus subsipicatus) (OECD 201)

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

EC50: 292 mg/l/48h (daphnia)  
LC50: 350 mg/l/96h (fish)

### 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.



## TOP EFEKT<sup>®</sup> EXTRA

### Safety Data Sheet

#### Data for the mixture ingredients:

| Substance             | Method               | Length               | Degraded percentage  |
|-----------------------|----------------------|----------------------|----------------------|
| Ethanol               | Easily biodegradable | Easily biodegradable | Easily biodegradable |
| Isopropanol           | No data available    | 10 days              | > 90%                |
| Non-ionic surfactants | OECD 301 A           | 28 days              | > 70%                |
| Phosphonates          | No data available    | No data available    | No data available    |

#### 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.

##### 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.

## TOP EFEKT<sup>®</sup> EXTRA

### Safety Data Sheet

#### SECTION 14. TRANSPORT INFORMATION

**TRADE NAME: TOP EFEKT<sup>®</sup> EXTRA**

- 14.1. UN Number: Not applicable.  
14.2. UN proper shipping name: Not applicable.  
14.3. Transport hazard class(es): Not applicable.  
14.4. Packing group: Not applicable.  
14.5. Environmental hazards: No.  
14.6. Special precautions 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.

#### **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:** A Chemical Safety Assessment has not been carried out.  
**Phosphonates:** A Chemical Safety Assessment has not been carried out.

## TOP EFEKT<sup>®</sup> EXTRA

### Safety Data Sheet

#### 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:

|                      |                                                                      |
|----------------------|----------------------------------------------------------------------|
| <b>Flam Liq. 2</b>   | – Flammable liquid and vapour, category 2.                           |
| <b>Flam Liq. 3</b>   | – Flammable liquid and vapour, category 3.                           |
| <b>Eye Irrit. 2</b>  | – Causes serious eye irritation, category 2.                         |
| <b>STOT SE 3</b>     | – Specific target organ toxicity - Single exposure STOT, category 3. |
| <b>Acute Tox. 4</b>  | – Acute toxicity, category 4.                                        |
| <b>Skin Irrit. 2</b> | – Causes skin irritation, category 2.                                |
| <b>Skin Corr. 1</b>  | – Corrosive to skin, category 1                                      |
| <b>Met. Corr 1</b>   | – Substance/Mixture is corrosive to metals, category 1               |
| <b>H225</b>          | – Highly flammable liquid and vapour.                                |
| <b>H226</b>          | – Flammable liquid and vapour.                                       |
| <b>H290</b>          | – May be corrosive to metals.                                        |
| <b>H302</b>          | – Harmful if swallowed.                                              |
| <b>H314</b>          | – Causes severe skin burns and eye damage.                           |
| <b>H315</b>          | – Causes skin irritation.                                            |
| <b>H318</b>          | – Causes serious eye damage.                                         |
| <b>H319</b>          | – Causes serious eye irritation.                                     |
| <b>H336</b>          | – May cause drowsiness or dizziness.                                 |

More information on the product can be found on the specific technical data sheet which is available on [www.tenzi.pl](http://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:**

- section 2.1
- section 9

Updated cards versions are now available on [www.tenzi.pl](http://www.tenzi.pl)

This Safety Data Sheet contains 11 pages. Changes in the content by unauthorized people is prohibited.