

**TopEfekt® PUNKT GT****Material Safety Data Sheet (MSDS)**

Creation Date 01.12.2006  
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Version: 1.0

**SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier: TopEfekt® PUNKT GT**

**1.2 Relevant identified uses of the substance or mixture and uses advised against:** This product is intended for local removal of permanent contaminations like chewing gum, pen marks etc.

**1.3 Details of the supplier of the safety data sheet:**

TENZI Sp. z o.o., 72-002 Dołuje, Skarbimierzyce 20, e-mail: [info@tenzi.pl](mailto:info@tenzi.pl), [www.tenzi.pl](http://www.tenzi.pl), tel. +48 91 3119777, fax. +48 91 3119779 E-mail address for a competent person responsible for MSDS: [technolog@tenzi.pl](mailto: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**

Flam Liq. 2 H225 –Highly flammable liquid and vapour

Eye Irrit. 2 H319 – Causes serious eye irritation

Skin Irrit. 2 H315–Causes skin irritation

Skin Sens. 1 H317 – May cause an allergic skin reaction

Asp. Tox. 1 H304 – May be fatal if swallowed and enters airways

Aquatic Chronic 2 H411 – Toxic to aquatic life with long lasting effects

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

Hazard symbols :



Signal words : **DANGER**

**Hazard statements:**

H225 –Highly flammable liquid and vapour

H319 – Causes serious eye irritation

H315– Causes skin irritation

H317 – May cause an allergic skin reaction

H304 – May be fatal if swallowed and enters airways

H411 – Toxic to aquatic life with long lasting effects

**Precautionary statements**

P210 – Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P280 – Wear protective gloves/protective clothing/eye protection/face 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.

P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 – Do NOT induce vomiting.

P405 – Store locked up.

**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

#### 3.2 Mixture

**Composition (according to: 648/2004/EC):** <50% alcohols, 5÷15% Orange oil terpenes, excipients

Product / ingredient name	Concentration [% weigh]	CAS / EC	Index-No.	REACH registration number	Classification
					Regulation (EC) No. 1272/2008 [CLP]
Ethanol	<30	64-17-5 200-578-6	603-002-00-5	01-21195292 30-52-XXXX	Flam Liq. 2 H225
Propan-2-ol / Isopropanol	<20	67-63-0 200-661-7	603-117-00-0		Flam Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336
Orange oil terpenes	<15	8028-48-6 232-433-8	---	---	Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Asp. Tox. 1 H304, Aquatic Acute 1 H400, Aquatic Chronic 1 H410

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

### SECTION 4. FIRST AID MEASURES

#### 4.1. Description of first aid measures

**Inhalation**– In case of inhalation poisoning symptoms (cough, dyspnea, dizziness) move to fresh air. Lay patient down in semi-recumbent posture, physical activity may cause pulmonary edema. Keep warm and rested. Get medical attention.

**Skin contact**– If product comes in contact with the skin immediately remove all contaminated clothing and flush exposed area with large amounts of water. Consult a doctor in case burns or irritation occur.

**Eye contact**- Immediately flush eyes with running water at least 15 minutes keeping eyelids open. Get medical attention.

**Ingestion**- If swallowed, DO NOT induce vomiting. Give lots of water to drink. DO NOT give any neutralizing agents. Contact a doctor and show this MSDS or label.

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

**Inhalation**– May cause upper respiratory tract irritation

**Skin** – Causes skin irritation

**Eyes**– Causes eye irritation

**Ingestion**– May be fatal if swallowed and enters airways

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

Obtain medical attention. Self-contained eye wash or shower should be readily available.

### SECTION 5. FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

**Suitable extinguishing media:** use extinguishing measures that are appropriate to local circumstances and surrounding environment. Water foam or spray, dry extinguishing agent.

**Extinguishing media which shall not be used for safety reason:** unknown

#### 5.2. Special hazards arising from the substance or mixture

Product is highly flammable.

#### 5.3. Advice for firefighters

Firefighters should wear full protective clothing and self-contained breathing apparatus. In case of fire warn the people nearby. 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 clothes, self-contained breathing apparatus, protective gloves, safety glasses

**For emergency responders:** protective clothes, self-contained breathing apparatus, protective gloves, safety glasses

### 6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

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

Prevent spills from entering sewers, surface water or groundwater. If it is possible confine and contain the spill by closing liquid flow, damage container put into protect leak proof wrapping. For large spill make a dike around the outside edges of the spill. Clean-up materials store for disposal as hazardous waste. Decontaminate polluted area with water. For small spill use absorbent materials (sand solid, sawdust, fines limestone) and store 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

Please note that you need to be carefully while working with this product. Use personal protection recommended in section 8.2

Mix only with water. DO NOT mix with other chemical substances.

People with skin allergy or respiratory system problems should not have contact with this product.

After usage keep container tightly closed. Keep away from unauthorized people.

Use only adequate ventilation.

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

Store in a tightly close, original plastic container. Store this product in dry environment that will be maintained at temperature between 5°C - 30°C. Store in good ventilated area with easy clean alkali resistant floor. DO NOT expose to sunlight. 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.

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

##### Ethanol (data for high concentrations substance):

DNEL Exposure frequency: Long term, Exposure route: dermal, Value: 343 mg/kg, Group: Workers

DNEL Exposure frequency: Long term, Exposure route: inhalation, Value: 950 mg/m<sup>3</sup>, Group: Workers

DNEL Exposure frequency: Long term, Exposure route: dermal, Value: 206 mg/kg bw/day, Group: consumers

DNEL Exposure frequency: Long term, Exposure route: inhalation, Value: 114 mg/m<sup>3</sup>, Group: consumers

DNEL Exposure frequency: Long term, Exposure route: oral, Value: 87 mg/kg/bw/day, Group: consumers

PNEC Aqua (fresh water) 0,96 mg/l

PNEC Aqua (marine water) 0,79 mg/l

PNEC Sediment (freshwater) 3,6 mg/kg

PNEC Soil 0,63 mg/kg

##### Propan-2-ol / Isopropanol (data for high concentrations substance):

DNEL Exposure frequency: Long term, Exposure route: dermal, Value: 888 mg/kg, Group: Workers

DNEL Exposure frequency: Long term, Exposure route: inhalation, Value: 500 mg/m<sup>3</sup>, Group: Workers

DNEL Exposure frequency: Long term, Exposure route: dermal, Value: 319 mg/kg bw/day, Group: consumers

DNEL Exposure frequency: Long term, Exposure route: inhalation, Value: 89 mg/m<sup>3</sup>, Group: consumers  
DNEL Exposure frequency: Long term, Exposure route: oral, Value: 29 mg/kg/bw/day, Group: consumers  
PNEC Aqua (fresh water) 140,9 mg/l  
PNEC Aqua (marine water) 140,9 mg/l  
PNEC Sediment (freshwater) 552 mg/kg  
PNEC Soil 28 mg/kg

**Orange oil terpenes (data for high concentrations substance):**

DNEL, PNEC - not identified

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

**8.2. Exposure controls**

**Personal protective equipment**

**RESPIRATORY PROTECTION:** In case of insufficient ventilation, wear suitable respiratory equipment - masks with gas and vapour protection

**HAND PROTECTION:** Chemical-resistant gloves for example: DERMATRIL

**EYE/FACE PROTECTION:** safety glasses

**SKIN PROTECTION:** protective clothes

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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

APPEARANCE/FORM: – transparent liquid

ODOUR – characteristic orange

ODOUR THRESHOLD - not identified

pH ±7

MELTING/FREEZING POINT: not identified

INITIAL BOILING POINT AND BOILING RANGE: not identified

FLASH POINT:<23<sup>0</sup>C

EVAPORATION RATE: not identified

FLAMMABILITY (SOLID,GAS): not identified

UPPER/LOWER FLAMMABILITY (UEL/LEL): not identified

VAPOUR PRESSURE: not identified

VAPOUR DENSITY: not identified

RELATIVE DENSITY: 0,861 ÷0,020 g/cm<sup>3</sup>

SOLUBILITY:

a) WATER – soluble

b) ORGANIC SOLVENT – not identified

PARTITION COEFFICIENT N-OCTANOL/WATER: – not identified

AUTO-IGNITION TEMPERATURE: not identified

DECOMPOSITION TEMPERATURE: not identified

VISCOSITY: not identified

EXPLOSIVE PROPERTIES: not identified

OXIDISING PROPERTIES: not identified

**9.2. Other information**

REFRACTIVE INDEX –43,2 % 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)

\* - based on data obtained from similar substances

**SECTION 10. STABILITY AND REACTIVITY**

**10.1 Reactivity**

Mixture is highly flammable.

**10.2 Chemical stability**

Stable under recommended storage conditions (see point 7)

**10.3 Possibility of hazardous reactions** not applicable

**10.4 Conditions to avoid**

Avoid storage unprotected from heat and not well-ventilated area. Avoid long-term expose to sunlight.

**10.5 Incompatible materials**

unknown

**10.6 Hazardous decomposition products**

Thermal decomposition expected to product carbon monoxide.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**ACUTE TOXICITY:**

- **INHALATION** : May cause upper respiratory tract irritation
- **DIGESTIVE SYSTEM**: May be fatal if swallowed and enters airways
- **SKIN CONTACT**: Causes skin irritation
- **EYE CONTACT**: Causes eye irritation

**DETAILS OF PARTICULAR COMPONENTS (according to substances's MSDS)**

**Ethanol (data for high concentrations substance):**

LD50: 6200 mg/kg

LC50: 95,6 mg/l/4h

**Propan-2-ol / Isopropanol (data for high concentrations substance):**

LD>50 2000 mg/kg (Acute toxicity, oral)

LD50> 2000 mg/kg (Acute toxicity, dermal)

LC50>5 mg/l

Local effects:

-skin- non-irritant

-eyes- irritant

Sensitising effects were not observed.

High vapor concentration may cause neurotic effects.

Germ cell mutagenicity: Ames test negative

Carcinogenicity: not carcinogenic effects

Reproductive toxicity: No adverse effects were observed

**Oranges oil terpenes (data for high concentrations substance):**

LD50 4400 mg/kg (rat, oral)

LD50 2000 mg/kg (rabbit, skin)

Skin corrosion/irritation: May cause skin irritation

Serious eye damage/eye irritation: : The product is not classified as irritant to eye.

Respiratory or skin sensitisation: May cause skin irritation

Germ cell mutagenicity: The product is not classified as mutagenic.

Carcinogenicity: The product is not classified as carcinogenic.

Reproductive toxicity: not classified

Aspiration hazard: May be fatal if swallowed and enters airways

**SECTION 12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

**DETAILS OF PARTICULAR COMPONENTS**

**Ethanol (data for high concentrations substance):**

- for Fish: LC50 = 8140 mg/l/48h.

- for Daphnia: EC50 9268 – 14221 mg/l/48h.

- for algae: EC50 5000 mg/l/7d.

**Propan-2-ol / Isopropanol (data for high concentrations substance):**

- for fish: LC50 > 100 mg/l/48h.

- for Daphnia: EC50 > 100 mg/l/48h.

- for algae: EC50 > 100 mg/l/72h.

**Orange oil terpenes (data for high concentrations substance):**

Very toxic to aquatic life with long lasting effects.

**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.

**Ethanol (data for high concentrations substance):**

Readily biodegradable.

**Propan-2-ol / Isopropanol (data for high concentrations substance):**

Biodegradability: >70% after 10 days

**Orange oil terpenes (data for high concentrations substance):**

No data available

**12.3 Bioaccumulative potential****Ethanol (data for high concentrations substance):**

Potential for bioaccumulation: logPow 0,05

**Propan-2-ol / Isopropanol (data for high concentrations substance):**

Potential for bioaccumulation: logPow 0,05

**Orange oil terpenes (data for high concentrations substance):**

Product is not biodegradable.

**12.4 Mobility in soil**

The product is water soluble and may spread in 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**

When introduced into biological treatment, a noise reduction in activity for activated sludge is possible, depending on local conditions and the concentration of the substance. Product cannot enter the sewage system or other sewage water and open tanks.

**SECTION 13. DISPOSAL CONSIDERATIONS****RESIDUES AND WASTES**

DO NOT mix with other liquid wastes. DO NOT empty into drain. 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 container (or equivalent) 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:** TopEfekt® PUNKT GT

**14.1. UN Number:** 1993

**14.2. UN proper shipping name:** flammable liquid , N.O.S

**14.3. Transport hazard class(es):** 3

**14.4. Packing group:** III

**14.5. Environmental hazards:** Product is dangerous for environment

**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 label:**



**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 substance:**

**Ethanol :** A Chemical Safety Assessment has been carried out.

**Propan-2-ol / Isopropanol:** A Chemical Safety Assessment has been carried out.

**Oranges oil terpenes:** Substance was pre-registered with a transitional period

**SECTION 16. OTHER INFORMATION**

Information above are based on current knowledge of product on 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.

Flammability classification of chemical mixture was done based on specific ignition temperature. The remaining classifications were made based on a calculation method and the concentrations of hazardous ingredients in the mixture.

The full list of Risk (R) phrases and H symbols from Section 2 and 3:

- Flam liq. 3- Flammable liquid, category 3
- Aquatic Acute 1 - Hazardous to the aquatic environment - Acute Hazard, Category 1
- Aquatic Chronic 1 – Harmful to aquatic organisms, category 1
- Skin Irrit. 2 - Causes skin irritation, category 2
- Skin Sens. 1- May cause an allergic skin reaction, category 1
- Aquatic Chronic 2– Harmful to aquatic organisms, category 2
- Asp. Tox. 1 - Aspiration hazard, category 1
- Flam liq. 2- Flammable liquid, category 2
- Eye Irrit. 2- Causes eye irritation, category 2
- STOT SE 3-Specific target organ toxicity - Single exposure STOT, Category 3.

H225 – Highly flammable liquid and vapour

H226 – Flammable liquid and vapour  
H304 – May be fatal if swallowed and enters airways.  
H315 – Causes skin irritation.  
H317 – May cause an allergic skin reaction.  
H319 – Causes serious eye irritation.  
H336 – May cause drowsiness or dizziness.  
H400 – Very toxic to aquatic life.  
H410 – Very toxic to aquatic life with long lasting effects.  
H411 – Toxic to aquatic life with long lasting effects.

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:**

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

This Material Safety Data Sheet contains 8 pages. Changes in the content by unauthorized persons is prohibited.

Skarbimierzyce 01.06.2015