

TopEfekt[®] PUNKT GT

Safety Data Sheet

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:**
Product designed for removing local impurities such as bubble gum, marker stains etc.
- 1.3 Details of the supplier of the safety data sheet:**

TENZI Sp. z o.o.
Skarbimierzycze 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:

- Flam Liq. 2 H225** – Highly flammable liquid and vapour.
Asp. Tox. 1 H304 – May be fatal if swallowed and enters airways.
Skin Irrit. 2 H315 – Causes skin irritation.
Skin Sens 1 H317 – May cause an allergic skin reaction.
Eye Irrit. 2 H319 – Causes serious eye irritation.
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.
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.
H411 – Toxic to aquatic life with long lasting effects.

TopEfekt® PUNKT GT

Safety Data Sheet

Precautionary statements:

- P210** – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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/doctor.
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. Mixtures:

Composition (according to: 648/2004/EC):

- < 50% alcohols
- 5-15% orange terpenes
- auxiliary components, not classified as dangerous.

Identification		Hazardous ingredient/classification	Concentration
CAS:	Not known	Product created from ethanol and Isopropanol	< 50%
WE:	902-053-3		
Index:	Not applicable		
Registration:	01-2119529230-52-XXXX		
		Flam Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336	
CAS:	8028-48-6	Orange terpene	< 15%
WE:	232-433-8		
Index:	Not applicable		
Registration:	01-2119493353-35-XXXX		
		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 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.

Lay him down in semi-recumbent posture and 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, immediately remove all contaminated clothing and flush exposed area with large amounts of water. In case of skin changes or burns, get medical attention.

Eye contact:

TopEfekt[®] PUNKT GT

Safety Data Sheet

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

Ingestion:

Do not induce vomiting, drink lots of water and do not take any neutralizing agents.
Get medical attention and show them this SDS or product's label.

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

Inhalation:

May cause irritation of the upper respiratory tract.

Skin:

Irritant.

Eyes:

Irritant.

Ingestion:

Swallowing may cause death.

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:

Atomized water, extinguishing powder, water mist.

Unsuitable extinguishing media:

There are not any known extinguishing media that you should not use.

5.2. Special hazards arising from the substance or mixture:

Product is easily 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:

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

6.2. Environmental precautions:

Avoid discharge into drains, watercourses or onto the ground.

TopEfekt® PUNKT GT

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/m³
NDSch: not identified.
NDSP: not identified.

Isopropanol (data for highly concentrated substance):

NDS: 900 mg/m³
NDSch: 1200 mg/m³
NDSP: not identified.

Orange terpene (data for highly concentrated substance):

NDS, NDSch, NDSP: not identified.

TopEfekt® PUNKT GT

Safety Data Sheet

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

Product created from ethanol and Isopropanol (data for highly concentrated substance):

DNEL:

Group: workers, Exposure time: short-term, Exposure route: inhalation, Type of effect: local effect,	Value: 1900 mg/m ³
Group: workers, Exposure time: long-term, Exposure route: dermal, Type of effect: systemic effect,	Value: 343 mg/kg
Group: workers, Exposure time: long-term, Exposure route: inhalation, Type of effect: systemic effect,	Value: 500 mg/m ³
Group: consumers, Exposure time: short-term, Exposure route: inhalation, Type of effect: local effect,	Value: 950 mg/m ³
Group: consumers, Exposure time: long-term, Exposure route: dermal, Type of effect: systemic effect,	Value: 206 mg/kg
Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: systemic effect,	Value: 89 mg/m ³
Group: consumers, Exposure time: long-term, Exposure route: ingestion, Type of effect: systemic effect,	Value: 26 mg/kg

Orange terpene (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:

In case of insufficient ventilation, wear suitable respiratory equipment - masks with gas and vapour protection.

HAND PROTECTION:

Protective gloves.
0.11 mm thick.

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:	Colourless liquid
Odour:	Characteristic (orange)
Odour threshold:	No data available
pH:	7 ± 1
Melting point:	No data available
Freezing point:	No data available
Initial boiling point:	> 35°C
Boiling range:	No data available
Flash point:	15.5°C
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper flammability limit:	No data available
Lower flammability limit:	No data available

TopEfekt[®] PUNKT GT

Safety Data Sheet

Upper explosive limit: No data available
Lower explosive limit: No data available
Vapour pressure: No data available
Vapour density: No data available
Relative density: $0.861 \pm 0.020 \text{ g/cm}^3$

Solubility:
A) Water: Not soluble
B) Organic solvent: 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: $< 20 \text{ mm}^2/\text{s}$
Explosive properties: No data available
Oxidising properties: No data available

9.2. Other information:

Refractive index: $43.2\% \text{ Brix}^* \pm 5\%$

* - 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:

Easily flammable liquid.

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. Avoid any source of ignition.

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: may irritate upper respiratory tract..

Skin contact: irritates skin.

TopEfekt® PUNKT GT

Safety Data Sheet

Eye contact: irritates eyes.
Digestive system: swallowing may cause death.

DETAILS OF PARTICULAR COMPONENTS (according to substances SDS):

Product created from ethanol and Isopropanol (data for highly concentrated substance):

LD50: > 2000 mg/kg (rat, orally)
LC50: > 25000 mg/m³ (rat, inhalation)
LD50: 13900 mg/kg (rabbit, dermal)

Doesn't cause skin irritation.
Irritates eyes (rabbit).
No allergic effects (guinea pig).

Orange terpene (data for highly concentrated substance):

LD50: 4400 mg/kg (rat, orally)
LD50: 2000 mg/kg (rabbit, dermal)

May cause skin irritation.
Doesn't irritate eyes.
May be allergic when in contact with the skin.
Swallowing and aspiration may cause death.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity:

Data for the mixture ingredients:

Product created from ethanol and Isopropanol (data for highly concentrated substance):

LC50: 9640 mg/l/96h (fish)
EC50: 5012 mg/l/48h (daphnia)
NOEC: > 10 mg/l/21days (daphnia)
EC50: 675 mg/l/4days (algae)
TT: 1050 mg/l/16h (bacteria)
Suppressing microbiological activity: 1050 mg/l/16h

Orange terpene (data for highly concentrated substance):

Product is very toxic to aquatic organisms.
May cause long-lasting adverse changes in aquatic environment.

12.2. Persistence and degradability:

Data for the mixture ingredients:

Product created from ethanol and Isopropanol (data for highly concentrated substance):
Easily biodegradable.

Orange terpene (data for highly concentrated substance):
No data available.

TopEfekt® PUNKT GT

Safety Data Sheet

12.3. Bioaccumulative potential:

Product created from ethanol and Isopropanol I (data for highly concentrated substance):

Log Pow: 0.05

Orange terpene (data for highly concentrated substance):

It's not biodegradable..

12.4. Mobility in soil

The product is very volatile and it evaporates very quickly.

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:

Do not let the product get into sewage system, drains or open water.

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

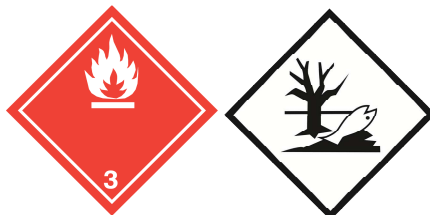
TRADE NAME: TopEfekt® PUNKT

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|--|---|
| 14.1. UN Number: | 1993 |
| 14.2. UN proper shipping name: | Flammable liquid, N.O.S. (reaction product ethanol mass and 2-propanol) |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| 14.5. Environmental hazards: | Yes. |
| 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

TopEfekt® PUNKT GT

Safety Data Sheet



SECTION 15. REGULATORY INFORMATION

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

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a 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

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

DIRECTIVE 2008/112/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 amending Council Directives 76/768/EEC, 88/378/EEC, 1999/13/EC and Directives 2000/53/EC, 2002/96/EC and 2004/42/EC of the European Parliament and of the Council in order to adapt them to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

COMMISSION REGULATION (EU) No 758/2013 of 7 August 2013 correcting Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

DIRECTIVE 2014/27/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 amending Council Directives 92/58/EEC, 92/85/EEC, 94/33/EC, 98/24/EC and Directive 2004/37/EC of the European Parliament and of the Council, in order to align them to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

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

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

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

15.2. Chemical safety assessment

For mixture:

A Chemical Safety Assessment has not been carried out.

For following mixture substances:

Product created from ethanol and Isopropanol

Orange turpene:

A Chemical Safety Assessment has been carried out.

Substance registered introductory with the transitional period.

TopEfekt® PUNKT GT

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:

STOT SE 3	– Specific target organ toxicity - Single exposure STOT, category 3.
Flam Liq. 2	– Flammable liquid and vapour, category 2.
Eye Irrit. 2	– Causes serious eye irritation, category 2.
Asp. Tox. 1	– May be fatal if swallowed and enters airways.
Skin Irrit. 2	– Causes skin irritation.
Skin Sens 1	– May cause an allergic skin reaction.
Aquatic Acute 1	– Hazardous to the aquatic environment - Acute Hazard, category 1
Aquatic Chronic 1	– Toxic to aquatic life with long lasting effects, category 1.
Aquatic Chronic 2	– Toxic to aquatic life with long lasting effects, category 2.
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 severe skin burns and eye damage.
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

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:

12 months from the production date (if product is stored according to the producer recommendations)

Changes compared to the previous version:

Section 15, 16

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

This Safety Data Sheet contains 10 pages. Changes in the content by unauthorized people is prohibited.