

PUNKT MULTI CLEANER

Safety Data Sheet

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

- 1.1 Product identifier:** PUNKT MULTI CLEANER - aerosol
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Product designed for removing local dirt such as bubble gum, marker stains 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:

- Aerosol 1 H222** – Extremely flammable aerosol.
Aerosol 1 H229 – Pressurised container: May burst if heated.
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.
STOT SE 3 H336 – May cause drowsiness or dizziness.
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:

- H222** – Extremely flammable aerosol.
H229 – Pressurised container: May burst if heated.
H315 – Causes skin irritation.
H317 – May cause an allergic skin reaction.
H319 – Causes serious eye irritation.
H336 – May cause drowsiness or dizziness.
H411 – Toxic to aquatic life with long lasting effects.

PUNKT MULTI CLEANER

Safety Data Sheet

Precautionary statements:

- P210** – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 – Do not pierce or burn, even after use.
P271 – Use only outdoors or in a well-ventilated area.
P273 – Avoid release to the environment.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313 – If skin irritation or rash occurs: Get medical advice/attention.
P410+P412 – Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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):

Identification	Hazardous ingredient/classification	Concentration
CAS: No data available WE: 902-053-3 Index: No data available Registration: 01-2119529230-52-XXXX	Product created from ethanol and Isopropanol Flam Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336	< 50%
CAS: 8028-48-6 WE: 232-433-8 Index: No data available Registration: Transitional period	Orange terpene Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Asp. Tox. 1 H304, Aquatic Acute 1 H400, Aquatic Chronic 1 H410	< 15%
CAS: 106-97-8 / 74-98-6 WE: 203-448-7 / 200-827-9 Index: 601-003-00-5 601-004-00-0 Registration: Transitional period	Propan and butan mixture Flam. Gas 1 H220, Press. Gas H280	< 50%

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. If symptoms persist, 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.

PUNKT MULTI CLEANER

Safety Data Sheet

Eye contact:

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 mucous membranes.

Skin:

May irritate skin after long-term exposure.

Eyes:

Irritant.

Ingestion:

Product is an aerosol.

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, foam, extinguishing powder, water mist, carbon dioxide.

Unsuitable extinguishing media:

Water jet.

5.2. Special hazards arising from the substance or mixture:

Extremely flammable aerosol. Water may not be a very suitable extinguishing media, so it should be used to cool down the containers, to prevent any explosions. Water them down from a safe distance and remove them, if it is possible.

During combustion, product may create carbon monoxides (CO, CO₂).

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

PUNKT MULTI CLEANER

Safety Data Sheet

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Notify local authorities about the fire and remove all sources of ignition.
Ventilate the area and use individual protection resources.

6.2. Environmental precautions:

Avoid discharge into drains, watercourses or onto the ground at all costs.

6.3. Methods and material for containment and cleaning up:

Product is stored inside hermetically closed aerosol containers, so spilling it is unlikely.
If the container is damaged, remove it from any ignition sources and provide proper ventilation. Collect spilled product with any kind of absorbent (sand for example), store it into appropriate container and transfer it to utilization.

6.4. Reference to other sections:

See section 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling:

Use only in well ventilated areas.
Do not store it inside tightly closed rooms.
Avoid eye contact, avoid long-term exposure with skin.
Avoid spilling the product, ignition sources, hot surfaces, open fire and increased temperature.
Avoid inhaling product's vapours and aerosols.

7.2. Conditions for safe storage, including any incompatibilities:

Store in well ventilated and cool places. Keep it away from children. Protect from the sun and temperature above 50°C.
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.

PUNKT MULTI CLEANER

Safety Data Sheet

Propan:
NDS: 1800mg/m³
NDSCh: not identified.
NDSP: not identified.

Butan:
NDS: 1900 mg/m³
NDSCh: 3000 mg/m³
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 ³
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 ³
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 ³
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 ³
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

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.

PUNKT MULTI CLEANER

Safety Data Sheet

EYE/FACE PROTECTION:

Safety glasses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Appearance:	Liquid in aerosol
Odour:	No data available
Odour threshold:	No data available
pH:	Not applicable
Melting point:	No data available
Freezing point:	No data available
Initial boiling point:	Not applicable
Boiling range:	No data available
Flash point:	No data available
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:	No data available

Solubility:

A) Water:	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:	No data available
Explosive properties:	Doesn't exhibit
Oxidising properties:	Doesn't exhibit

9.2. Other information:

None.

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:

None.

PUNKT MULTI CLEANER

Safety Data Sheet

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 monoxides.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

ACUTE TOXICITY:

Inhalation: may irritate mucous membranes
Skin contact: may irritate skin after long-term exposure.
Eye contact: irritates eyes.
Digestive system: none.

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

Orange terpene (data for highly concentrated substance):

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

Propan:

Odour threshold: 9022-36088 mg/m³

Butan:

LC50: 658000 mg/m³/4h (rat, inhalation)
Odour threshold: 6240 mg/m³

Irritant to skin.
Irritant to eyes.
May cause allergy.
May cause dizziness and sleepiness.

PUNKT MULTI CLEANER

Safety Data Sheet

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)

Propan:

9.3/19 mg/l/48h (daphnia)
12/13 mg/l/72h (algae)

Butan:

10.6 mg/l/48h (daphnia)
7.15 mg/l/72h (algae)

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 the mixture ingredients:

Substance	Method	Length	Degraded percentage
Ethanol	Easily biodegradable	Easily biodegradable	Easily biodegradable
Isopropanol	No data available	10 days	> 70%

Propan:

May biodegrade in water and soil, but the most significant is evaporating in the air.

Butan:

All ingredients exhibits a large evaporating capability.

12.3. Bioaccumulative potential:

Ethanol (data for highly concentrated substance):

Log Pow: 0.05

Isopropanol (data for highly concentrated substance):

Log Pow: 0.05

Orange terpene (data for highly concentrated substance):

It's not biodegradable.

PUNKT MULTI CLEANER

Safety Data Sheet

Propan/Butan:

Log Pow: 2.36

Log BCF: 1.60

Log BCF: 1.76

12.4. Mobility in soil

Propan is slightly mobile in soil.

12.5. Results of PBT and vPvB assessment:

No data available.

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: PUNKT MULTI CLEANER

- 14.1. UN Number: 1950
14.2. UN proper shipping name: Flammable aerosols
14.3. Transport hazard class(es): 2
14.4. Packing group:
14.5. Environmental hazards: Yes.
14.6. Special precautions for user: No data available.
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: No data available.

PUNKT MULTI CLEANER

Safety Data Sheet

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

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:

STOT SE 3	– Specific target organ toxicity - Single exposure STOT, category 3.
Flam. Gas	– Flammable gas, category 1.
Press. Gas	– Pressured gas.
Aerosol 1	– Aerosol product, category 1
Flam Liq. 2	– Flammable liquid and vapour, category 2.
Flam Liq. 3	– Flammable liquid and vapour, category 3.
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.

PUNKT MULTI CLEANER

Safety Data Sheet

H220	– Extremely flammable gas.
H222	– Extremely flammable aerosol.
H225	– Highly flammable liquid and vapour.
H226	– Flammable liquid and vapour.
H229	– Pressurised container: May burst if heated.
H280	– Contains gas under pressure; may explode if heated.
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.

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