

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 14.05.2018

Version number 1

Revision: 14.05.2018

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **Product identifier**
- **Trade name:** Tytan Professional Flexi Gum 400ml
- **Article number:** S-1147
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture**  
Construction chemicals  
Aerosol
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
TP  
Selena FM S.A.  
ul. Strzegomska 2-4, 53-611 Wroclaw, Poland  
tel.: +48 71 78 38 290, fax: +48 71 78 38 291  
e-mail: office@selena.com  
www.selenafm.com
- **Further information obtainable from:** msds@selena.com
- **Emergency telephone number:** European emergency number: 112 (24h)

**SECTION 2: Hazards identification**

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Aerosol 1                      H222-H229    Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS08 health hazard

STOT RE 2                      H373                      May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H335	May cause respiratory irritation.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.

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· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**

xylene, mixture of isomers  
Hydrocarbons, C6, isoalkanes, <5% n-hexane  
ethylbenzene

· **Hazard statements**

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P273 Avoid release to the environment.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

· **Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

· **Chemical characterisation: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 68476-85-7 EINECS: 270-704-2	Petroleum gases, liquefied ⚠ Flam. Gas 1, H220; Press. Gas C, H280	<22%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	xylene, mixture of isomers ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	<21%
EC number: 931-254-9 Reg.nr.: 01-2119484651-34-XXXX	Hydrocarbons, C6, isoalkanes, <5% n-hexane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	<19%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35-xxxx	ethylbenzene ⚠ Flam. Liq. 2, H225; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332	<6%

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- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**  
Remove to fresh air. Keep person warm and at rest.  
Seek medical treatment in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water.  
If symptoms persist, consult doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
Contact with eyes: May cause irritation, pain and redness of the eyes.  
Contact with skin: May cause irritation and redness.  
After inhalation: Inhalation of concentrated vapors may cause irritation of the mucous membranes of the nose, throat and respiratory system further episodes.  
After ingestion: abdominal pain, vomiting.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet.
- **Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Carbon monoxide (CO).  
Carbon dioxide (CO<sub>2</sub>).  
Can form explosive gas-air mixtures.  
Fire of surrounding materials, can cause a danger of pressure raise in the container, and bursting of them.
- **Advice for firefighters**
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.  
Wear fully protective suit.  
Wear self-contained respiratory protective device.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Cool endangered receptacles with water spray.

### SECTION 6: Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Do not breathe gas / fumes / vapour / spray.  
Keep away from ignition sources.

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- **Environmental precautions:**  
Do not allow to enter sewers / surface or ground water.  
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Pick up mechanically.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **Handling:**
- **Precautions for safe handling**  
No special precautions are necessary if used correctly.  
Keep away from heat and direct sunlight.  
Store in cool, dry place in tightly closed receptacles.  
Provide good ventilation.  
Do not pierce or burn even after use. Use only as directed on the label.
- **Information about fire - and explosion protection:**  
Protect from heat.  
Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool and dry place at ambient temperature.  
Store only in the original receptacle.  
Keep away from sources of ignition, no smoking. Take precautionary measures against electrostatic loading.  
Cool endangered containers by water spray.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidizers.  
Do not store together with acids.
- **Further information about storage conditions:**  
Protect from heat and direct sunlight.  
Protect from frost.  
Store in vertical position in closed original containers.  
Store at temperatures below 50 °C.  
None.
- **Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

- **Additional information about design of technical facilities:** No further data; see item 7.

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· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**CAS: 68476-85-7 Petroleum gases, liquefied**

WEL	Short-term value: 2180 mg/m <sup>3</sup> , 1250 ppm Long-term value: 1750 mg/m <sup>3</sup> , 1000 ppm Carc (if LPG contains > 0.1% of buta-1.3-diene)
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**CAS: 1330-20-7 xylene, mixture of isomers**

WEL	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV
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**CAS: 13463-67-7 titanium dioxide**

WEL	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
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**CAS: 100-41-4 ethylbenzene**

WEL	Short-term value: 552 mg/m <sup>3</sup> , 125 ppm Long-term value: 441 mg/m <sup>3</sup> , 100 ppm Sk
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· **DNELs**

**CAS: 1330-20-7 xylene, mixture of isomers**

Dermal	DNEL	1.6 mg/kg/day (General population, consumers) 174 mg/kg/day (Workers)
	DNEL	174 mg/m <sup>3</sup> (General population, consumers) 289 mg/m <sup>3</sup> (Workers)

**Hydrocarbons, C6, isoalkanes, <5% n-hexane**

Oral	DNEL	1,301 mg/kg/day (General population, consumers)
Dermal	DNEL	1,377 mg/kg/day (General population, consumers) 13,964 mg/kg/day (Workers)
	DNEL	1,137 mg/m <sup>3</sup> (General population, consumers) 5,306 mg/m <sup>3</sup> (Workers)

**CAS: 100-41-4 ethylbenzene**

Oral	DNEL	1.6 mg/kg/day (General population, consumers)
Dermal	DNEL	180 mg/kg/day (Workers)
Inhalative	DNEL	15 mg/m <sup>3</sup> (General population, consumers) 77 mg/m <sup>3</sup> (Workers)

· **PNECs**

**CAS: 100-41-4 ethylbenzene**

(freshwater)	0.1 mg/l (Aquatic Organisms)
(sea water)	0.01 mg/l (Aquatic Organisms)
(freshwater sediments)	13.7 mg/kg (Aquatic Organisms)
(sea water sediments)	1.37 mg/kg (Aquatic Organisms)
(soil)	2.68 mg/kg (Terrestrial Organism)

· **Ingredients with biological limit values:**

**CAS: 1330-20-7 xylene, mixture of isomers**

BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
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- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Wash hands before breaks and at the end of work.  
Do not eat, drink, smoke or sniff while working.  
Avoid contact with the eyes and skin.  
Do not inhale dust / smoke / mist.  
Immediately remove all soiled and contaminated clothing.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

EN 374

The glove material has to be impermeable and resistant to the product / the substance / the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
Short-term exposure ≥ 30 min (EN 374)  
Long-term exposure > 480 min  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety glasses

EN 166

- **Body protection:** Protective work clothing.

**SECTION 9: Physical and chemical properties**

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - **Form:** Aerosol
  - **Colour:** According to product specification
  - **Odour:** Characteristic
  - **Odour threshold:** Not determined
- **Change in condition**
  - **Melting point/freezing point:** Not determined

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<b>Initial boiling point and boiling range:</b> Not applicable, as aerosol	
· <b>Flash point:</b>	-95 (propan) -60 (butan) °C
· <b>Flammability (solid, gas):</b>	Extremely flammable aerosol.
· <b>Decomposition temperature:</b>	Not determined
· <b>Auto-ignition temperature:</b>	Product is not selfigniting
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air / vapour mixtures are possible.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined
<b>Upper:</b>	Not determined
· <b>Vapour pressure:</b>	ok. 520 kPa
· <b>Density at 20 °C:</b>	0,7-09 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined
· <b>Vapour density</b>	Not determined
· <b>Evaporation rate</b>	Not determined
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix
· <b>Partition coefficient: n-octanol/water:</b>	Not determined
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined
<b>Kinematic:</b>	Not determined
· <b>Other information</b>	No further relevant information available

### SECTION 10: Stability and reactivity

- **Reactivity** Reactive product. Vapors may form explosive mixtures with air.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid**  
Temperatures above +50 °C.  
Avoid temperatures near or above the flash point. Do not heat closed containers.  
Avoid direct sunlight and heat, as these may cause a risk of fire.  
High temperature, sources of ignition, light and air.
- **Incompatible materials:** Strong acids, alkalis and oxidising agents.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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· **LD/LC50 values relevant for classification:**

**CAS: 1330-20-7 xylene, mixture of isomers**

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	1,466.67 mg/kg (rabbit)
Inhalative	LC50/4h	12.09 mg/l (rat)

**CAS: 100-41-4 ethylbenzene**

Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	15,354 mg/kg (rabbit)
Inhalative	LC50/4h	17.2 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause respiratory irritation.
- **STOT-repeated exposure**  
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard**  
Due to the form of the product, which prevents accidental ingestion, there is little probability of aspiration of the product into the lungs.  
May be fatal if swallowed and enters airways.

**SECTION 12: Ecological information**

- **Toxicity**
- **Aquatic toxicity:**  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**CAS: 1330-20-7 xylene, mixture of isomers**

EC50	1 mg/l (daphnia)
LC50	2.2 mg/l (algae) 26.7 mg/l (fish)

**CAS: 100-41-4 ethylbenzene**

EC50	63 mg/l (algae) 75 mg/l (daphnia)
LC50	42.3 mg/l (fish)

- **Persistence and degradability** Easily biodegradable
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** Non significant accumulation in organisms
- **Mobility in soil** Insoluble in water.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

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- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

· **Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Dispose of in a safe manner in accordance with local / national regulations. Do not allow to enter surface or ground water.

Assigning a code from the waste catalogue depends on the sector, in which the user operates, as well as on arrangements made between the waste generator and a competent environment protection department. Substance/mixture as a waste compound brings hazardous properties HP: 3, 4, 5, 15

· **European waste catalogue**

15 01 11*	metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers
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· **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

· **UN-Number**

· **ADR, IMDG, IATA** UN1950

· **UN proper shipping name**

· **ADR** 1950 AEROSOLS

· **IMDG, IATA** AEROSOLS

· **Transport hazard class(es)**

· **ADR**



· **Class** 2 Gases.

· **Label** 2.1

· **IMDG, IATA**



· **Label** 2.1

· **Packing group**

· **ADR, IMDG, IATA** Not applicable

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· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Warning: Gases.
· <b>EMS Number:</b>	F-D,S-U
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	UN 1950 AEROSOLS, 2.1

### SECTION 15: Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
1907/2006/CE Regulation, REACH  
1272/2008/CE Regulation, CLP  
2015/830/UE Regulation
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P3a FLAMMABLE AEROSOLS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57**  
None of the ingredients is listed.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**  
H220 Extremely flammable gas.  
H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H280 Contains gas under pressure; may explode if heated.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances

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CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
Flam. Gas 1: Flammable gases – Category 1  
Aerosol 1: Aerosols – Category 1  
Press. Gas C: Gases under pressure – Compressed gas  
Flam. Liq. 2: Flammable liquids – Category 2  
Flam. Liq. 3: Flammable liquids – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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