SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

Top Glass PREMIUM

Creation date	18th February 2016		
Revision date	27th April 2023	Version	3.0

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

1.1. Product identifier — Top Glass PREMIUM

Substance / mixture — mixture

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

Mixture's intended use

Ready-to-use product for cleaning windows, mirrors and other glass surfaces in rooms and cars with ANTI-steam effect.

Mixture uses advised against

not available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Name or trade name	TENZI Sp. z o.o.
Address	Skarbimierzyce 20, Dołuje, 72-002 Poland
VAT Reg No	PL8512583405
Phone	+48 91 3119777
E-mail	info@tenzi.pl
Web address	www.tenzi.pl

Competent person responsible for the safety data sheet

Name	technolog@tenzi.pl
E-mail	technolog@tenzi.pl

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.

2.2. Label elements

none

Supplemental information

<5 % anionic surfactants, perfumes

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43-XXXX	ethanol	<15	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 50 %	

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 68891-38-3 EC: 500-234-8 Registration number: 01-2119488639-16-XXXX	Sodium Lauryl Ether Sulfate	<0,5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412 Specific concentration limit: Eye Dam. 1, H318: C ≥ 10 % Eye Irrit. 2, H319: 5 % ≤ C < 10 %	

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air.

If on skin

Remove contaminated clothes.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person.

If swallowed

DO NOT INDUCE VOMITING - even the inducted vomiting can cause complications as in case of detergents and other foaming substances.

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

If inhaled

Not expected.

If on skin

Not expected.

If in eyes

Not expected.

If swallowed

Not expected.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Accommodate extinguishing components to the location of fire.

Unsuitable extinguishing media

not available

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Follow the instructions in the Sections 7 and 8.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

After removal of the product, wash the contaminated site with plenty of water.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in a tightly closed, original plastic container (high density polyethylene HDPE). 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, frost, sparks, flame and source of ignition.

Content	Packaging type	Material of package
600 ml	bottle	HDPE

Storage temperature min 5 °C, max 35 °C

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

DNEL

ethanol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	343 mg/kg	Chronic effects systemic		SDS
Workers	Inhalation	950 mg/m³	Acute effects systemic		SDS
Workers	Dermal	1900 mg/kg	Acute effects systemic		SDS
Consumers	Dermal	206 mg/kg	Chronic effects systemic		SDS
Consumers	Oral	87 mg/kg	Chronic effects systemic		SDS
Consumers	Inhalation	114 mg/m³	Chronic effects systemic		SDS
Consumers	Dermal	950 mg/kg	Acute effects systemic		SDS
Consumers	Inhalation	950 mg/m³	Acute effects systemic		SDS

Sodium Lauryl Ether Sulfate					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	2750 mg/kg	Chronic effects local		karta charakterystyki
Workers	Inhalation	175 mg/kg	Chronic effects local		karta charakterystyki
Consumers		1650 mg/kg	Chronic effects local		karta charakterystyki
Consumers	Inhalation	52 mg/m³	Chronic effects local		karta charakterystyki
Consumers	Food chain	15 mg/m³	Chronic effects local		karta charakterystyki

PNEC

ethanol			
Route of exposure	Value	Value determination	Source
Soil (agricultural)	0.63 mg/kg		SDS
Microorganisms in sewage treatment	580 mg/l		SDS
Marine water	0.79 mg/l		SDS
Freshwater sediment	3.6 mg/kg		SDS
Drinking water	0.96 mg/l		SDS

Sodium Lauryl Ether Sulfate			
Route of exposure	Value	Value determination	Source
Drinking water	0.24 mg/l		karta charakterystyki
Marine water	0.024 mg/l		karta charakterystyki
Freshwater sediment	5.45 mg/kg		karta charakterystyki
Sea sediments	0.545 mg/kg		karta charakterystyki
Microorganisms in sewage treatment	10 mg/l		karta charakterystyki
Soil (agricultural)	0.946 mg/kg		karta charakterystyki

8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

It is not needed.

Skin protection

When handling in long-term or repeatedly, use protective gloves.

Respiratory protection

It is not needed.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	blue
Odour	characteristic of the composition used for
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	48 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	8 (undiluted at 20 °C)
Kinematic viscosity	data not available
Solubility in water	soluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	

Density	data not available
Relative density	0.980 g/cm3 (+-) 0.020
Relative vapour density	data not available
Particle characteristics	data not available
Form	blue liquid

9.2. Other information

Flash point: based on a similar product Testing the capacity of sustaining the burning of liquid (ISO 9038: 2005P) - does not have the ability to sustain burning

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

ethanol								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD_{50}		6.2-15 g/l		Rat (Rattus norvegicus)			SDS
Oral	LDL_0		6000 mg/kg		Human			SDS
	LDL_0		7060 mg/kg		Rat (Rattus norvegicus)			SDS
Inhalation	LC_{50}		<50 mg/l	4 hours	Rat (Rattus norvegicus)			SDS

Sodium Lauryl Ether Sulfate								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral	LD_{50}		>2000 mg/kg		Rat (Rattus norvegicus)			karta charakterystyki
Skin	LD_{50}		>2000 mg/kg		Rat (Rattus norvegicus)			karta charakterystyki
Oral (drinking water)	NOAEL	OECD 416	>300 mg/kg		Rat (Rattus norvegicus)	F/M		karta charakterystyki

Sodium Lauryl Ether Sulfate								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination	Source
Oral (drinking water)	NOAEL (F_1)	OECD 416	>300 mg/kg		Rat (Rattus norvegicus)	F/M	Reproduction	karta charakterystyki
Oral	NOAEL	OECD 414	>1000 mg/kg	10 days	Rat (Rattus norvegicus)			karta charakterystyki
Oral	NOAEL	OECD 414	>1000 mg/kg	10 days	Rat (Rattus norvegicus)	F		karta charakterystyki
Oral	NOAEL	OECD 408	>225 mg/kg	90 days	Rat (Rattus norvegicus)			karta charakterystyki

Skin corrosion/irritation
Based on available data the classification criteria are not met.

Serious eye damage/irritation
Based on available data the classification criteria are not met.

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.

Toxicity for specific target organ - single exposure
Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure
Based on available data the classification criteria are not met.

Aspiration hazard
Based on available data the classification criteria are not met.

11.2. Information on other hazards
The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity
not available

Acute toxicity

Sodium Lauryl Ether Sulfate						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LD_{50}	OECD 203	>1-10 mg/l	96 hours	Fish (Branchydanio rerio)		karta charakterystyki
NOEC		1.2 mg/l		Fish (Branchydanio rerio)		karta charakterystyki
EC_{50}	OECD 202	>1-10 mg/l	48 hours	Other aquatic organisms (Daphnia magna)		karta charakterystyki
NOEC	OECD 211	>0.1-1.0 mg/l	21 days	Daphnia (Daphnia magna)		karta charakterystyki
EC_{50}	OECD 201	>10-100 mg/l	72 hours	Algae (Desmodesmus subspicatus)		karta charakterystyki
EC_{10}		10000 mg/l		Bacteria (Pseudomonas putida)		karta charakterystyki

12.2. Persistence and degradability

Surfactants are biodegradable according to the European Parliament and Council Regulation (EC) No. 648/2004 on detergents, as amended. The mixture is biodegradable.

Biodegradability

Sodium Lauryl Ether Sulfate				
Parameter	Value	Exposure time	Environment	Result
				Easily biodegradable

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

07 06 04* other organic solvents, washing liquids and mother liquors

Packaging waste type code

15 01 02 plastic packaging

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

No

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the 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, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as ammended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

For mixture:
A Chemical Safety Assessment has not been carried out.
For the following substances, mixtures:
Ethanol: the manufacturer has performed a chemical safety assessment.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road

BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC_{10}	Concentration of a substance when it is affected 10% of the population
EC_{50}	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC_{50}	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD_{50}	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Dam.	Serious eye damage
Flam. Liq.	Flammable liquid
Skin Irrit.	Skin irritation

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

Version 3.0 replaces the SDS version of 16/12/2022. Changes have been made to sections 2, 11, 15 and 16.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.