



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

GRAN GLASS

Creation date 13th June 2005
Revision date 25th March 2022 Version 2.0

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

- 1.1. Product identifier** GRAN GLASS
Substance / mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Ready to use, quick-drying product, designed for cleaning various kinds of refrigerators, glass and plastic containers and freezers (up to -20°C).
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 classified as dangerous.

Flam. Liq. 3, H226

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

Most serious adverse physico-chemical effects

Flammable liquid and vapour.

- 2.2. Label elements**
Hazard pictogram



Signal word
Warning

Hazard statements

H226 Flammable liquid and vapour.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.

- 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.



SAFETY DATA SHEET

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GRAN GLASS

Creation date 13th June 2005
Revision date 25th March 2022 Version 2.0

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 | <12 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 50 % | |
| Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25-XXXX | propan-2-ol | <8 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 | |

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

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. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible.

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. Rinsing should continue at least for 10 minutes.

If swallowed

DO NOT INDUCE VOMITING - even the induced 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.



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| | | | |
|---------------|-----------------|---------|-----|
| Creation date | 13th June 2005 | Version | 2.0 |
| Revision date | 25th March 2022 | | |

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

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 a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. 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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

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 flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. No smoking. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges.

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.

Storage temperature min 5 °C, max 35 °C

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

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.



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

GRAN GLASS

Creation date 13th June 2005
Revision date 25th March 2022 Version 2.0

DNEL

ethanol

| Workers / consumers | Route of exposure | Value | Effect | Determining method | Source |
|---------------------|-------------------|-----------------------|--------------------------|--------------------|--------|
| Workers | Dermal | 343 mg/kg | Systemic chronic effects | | SDS |
| Workers | Inhalation | 950 mg/m ³ | Systemic acute effects | | SDS |
| Workers | Dermal | 1900 mg/kg | Systemic acute effects | | SDS |
| Consumers | Dermal | 206 mg/kg | Systemic chronic effects | | SDS |
| Consumers | Oral | 87 mg/kg | Systemic chronic effects | | SDS |
| Consumers | Inhalation | 114 mg/m ³ | Systemic chronic effects | | SDS |
| Consumers | Dermal | 950 mg/kg | Systemic acute effects | | SDS |
| Consumers | Inhalation | 950 mg/m ³ | Systemic acute effects | | SDS |

propan-2-ol

| Workers / consumers | Route of exposure | Value | Effect | Determining method | Source |
|---------------------|-------------------|-----------------------|--------------------------|--------------------|--------|
| Workers | Dermal | 888 mg/kg | Systemic chronic effects | | SDS |
| Workers | Inhalation | 500 mg/m ³ | Systemic chronic effects | | SDS |
| Consumers | Dermal | 319 mg/kg | Systemic chronic effects | | SDS |
| Consumers | Inhalation | 89 mg/m ³ | Systemic chronic effects | | SDS |
| Consumers | Oral | 26 mg/kg | Systemic chronic effects | | SDS |

PNEC

ethanol

| Route of exposure | Value | Determining method |
|---|------------|--------------------|
| Soil (agricultural) | 0.63 mg/kg | |
| Microorganisms in wastewater treatment plants | 580 mg/l | |
| Seawater | 0.79 mg/l | |
| Freshwater sediment | 3.6 mg/kg | |
| Drinking water | 0.96 mg/l | |

propan-2-ol

| Route of exposure | Value | Determining method |
|---------------------|------------|--------------------|
| Drinking water | 140.9 mg/l | |
| Seawater | 140.9 mg/l | |
| Freshwater sediment | 552 mg/kg | |
| Sea sediments | 552 mg/kg | |
| Soil (agricultural) | 28 mg/kg | |

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

Data not available.

Environmental exposure controls

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



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

GRAN GLASS

Creation date 13th June 2005
Revision date 25th March 2022 Version 2.0

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---------------------------------------|
| Physical state | liquid |
| Colour | colourless |
| Odour | Characteristic for the materials used |
| Melting point/freezing point | data not available |
| Boiling point or initial boiling point and boiling range | >35 °C |
| Flammability | data not available |
| Lower and upper explosion limit | data not available |
| Flash point | 31 °C |
| Auto-ignition temperature | data not available |
| Decomposition temperature | data not available |
| pH | 7 (undiluted at 20 °C) |
| Kinematic viscosity | data not available |
| Solubility in water | data not available |
| 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 | 0,952 g/cm ³ (+-) 0,020 |
| Form | colorless liquid |

9.2. Other information

Flash point: based on a similar product Testing the capacity of sustaining the burning of liquid (ISO 9038: 2005P) - has 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 | Value | Time of exposure | Species | Sex | Source |
|-------------------|------------------|------------|------------------|-------------------------|-----|--------|
| Oral | LD ₅₀ | 6.2-15 g/l | | Rat (Rattus norvegicus) | | SDS |
| Oral | LDL0 | 6000 mg/kg | | Human | | SDS |
| | LDL0 | 7060 mg/kg | | Rat (Rattus norvegicus) | | SDS |



SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

GRAN GLASS

Creation date 13th June 2005
Revision date 25th March 2022 Version 2.0

ethanol

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex | Source |
|-------------------|------------------|----------|------------------|-------------------------|-----|--------|
| Inhalation | LC ₅₀ | <50 mg/l | 4 hour | Rat (Rattus norvegicus) | | SDS |

propan-2-ol

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex | Source |
|-------------------|------------------|-------------|------------------|---------|-----|--------|
| Oral | LD ₅₀ | >2000 mg/kg | | | | SDS |
| Skin | LD ₅₀ | >2000 mg/kg | | | | SDS |
| Inhalation | LC ₅₀ | >5 mg/l | | | | SDS |

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

not available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Data for the mixture are not available.

propan-2-ol

| Parameter | Value | Time of exposure | Species | Environment | Source |
|------------------|-----------|------------------|---------------------------------|-------------|--------|
| LC ₅₀ | >100 mg/l | 48 hour | Fishes (Leuciscus idus) | | SDS |
| EC ₅₀ | >100 mg/l | 48 hour | Daphnia (Daphnia magna) | | SDS |
| EC ₅₀ | >100 mg/l | 72 hour | Algae (Scenedesmus subspicatus) | | SDS |



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according to Regulation (EC) No 1907/2006 (REACH) as amended

GRAN GLASS

| | | | |
|---------------|-----------------|---------|-----|
| Creation date | 13th June 2005 | Version | 2.0 |
| Revision date | 25th March 2022 | | |

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

Data not available.

12.4. Mobility in soil

Data 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

Data 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

UN 1987

14.2. UN proper shipping name

ALCOHOLS, N.O.S. (ethanol, propan-2-ol)

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

III - substances presenting low danger

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



SAFETY DATA SHEET

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GRAN GLASS

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Revision date 25th March 2022 Version 2.0

Additional information

Hazard identification No.

UN number

Safety signs



3



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 of 16th 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, as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended.

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.

Propanol 2-ol: 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.

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Guidelines for safe handling used in the safety data sheet

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.

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

CE₅₀ Concentration of a substance when it is affected 50% of the population

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures

DNEL Derived no-effect level

EINECS European Inventory of Existing Commercial Chemical Substances

EmS Emergency plan

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



SAFETY DATA SHEET

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GRAN GLASS

| | | | |
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| Creation date | 13th June 2005 | Version | 2.0 |
| Revision date | 25th March 2022 | | |

| | |
|------------------|---|
| IMDG | International Maritime Dangerous Goods |
| 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 |
| LZO | Volatile organic compounds |
| MARPOL | International Convention for the Prevention of Pollution from Ships |
| OEL | Occupational Exposure Limits |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted no-effect concentration |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Agreement on the transport of dangerous goods by rail |
| UE | European Union |
| 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 |
| vPvB | Very Persistent and very Bioaccumulative |
| WE | Identification code for each substance listed in EINECS |

| | |
|------------|--|
| Eye Irrit. | Eye irritation |
| Flam. Liq. | Flammable liquid |
| STOT SE | Specific target organ toxicity - single exposure |

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)

General update

More information

Classification procedure - calculation method.

Classification procedure - based on the results of flash point and sustained burning tests.

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.