

MATERIAL SAFETY DATA SHEET

Prepared in accordance with the Regulation on Safety Data Sheets for Hazardous Substances and Mixtures (Date of 13 December 2014, Official Newspaper No. 29204).

Product Name: PHARMA GRADE REFINED GLYCERIN-TSE EN 829

Compilation date: 17.08.2020 - **MSDS No:** 01

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: PHARMA GRADE REFINED GLYCERIN-TSE EN 829

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

General Usage: Food Industry (as a sweetener, solvent and preservative), Pharmaceutical Industry, Personal Care products (as a lubricant, smoothness enhancer and moisture retainer), Industrial Use, Scientific Research and Development, Paint Raw Materials, Antifreeze liquids and softeners.

1.3. Details of the supplier of the safety data sheet

Company name : LEGEND KİMYA SAN. VE TİC. A.Ş.

Company address : Soguksu Dist. 308. St. Adabel Sit. No:42/61 MURATPASA-ANTALYA-TURKEY

Factory address : Kırklareli OSB Dist. 15. St. No:2 KIZILCIKDERE CENTER-KIRKLARELI- TURKEY

Tel : +90 288 263 40 07

E-mail : info@legendkimya.com

Web : <http://legendkimya.com/>

1.4. Emergency telephone number: 114 (UZEM)

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Physical Hazards: Not classified.

Health Hazards: Not classified.

Environmental Hazards: Not classified.

2.2. Label elements

Signal word: No data available.

Hazard pictograms: No data available.

Hazard statements: No data available.

Precautionary statements: No data available.

2.3. Other Hazards

No data available.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Chemical name	Cas No.	EC No.	(Regulation on Classification, Labeling and Packing of Materials and Mixtures) Classification	Concentration (% w/w)
Glycerin	56-81-5	200-289-5	Not classified.	% 99,7 (GMO Free)

3.2 Mixtures

Not applicable.

4. FIRST AID MEASURES

4.1. Description of first aid measures

General information: In case of accident or feeling unwell, seek medical advice. (Show the safety data sheet if possible.)

Eye Contact: Flush eyes thoroughly with water for a few minutes. Remove contact lenses after the first 1-2 minutes and continue flushing for a few more minutes. If effects occur, consult a doctor, preferably an ophthalmologist.

Skin Contact: Wash skin with plenty of water. Remove contaminated clothing.

Inhalation: Remove person to fresh air; If side effects occur, consult a doctor.

Ingestion: If swallowed, seek medical advice. Do not induce vomiting unless directed to do so by medical personnel.

4.2 Most important symptoms and effects, both acute and delayed

Vomiting and headache are predicted.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician: There is no specific antidote. Exposure treatment should be directed towards the control of symptoms and the clinical condition of the patient.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Water. Foam. Dry extinguishing powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media: No data available.

5.2. Special Hazards Caused by the Substance

Unusual Fire and Explosion Hazards: Vigorous steam generation or explosion may occur when direct water flow is applied to hot liquids. May form explosive mixture with air at intense temperatures.

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Hazardous Combustion Products: Smoke during a fire may contain the original material in addition to combustion products of various compositions that can be toxic and / or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

5.3 Advice for firefighters

Do not stay in the danger zone without a breathing apparatus. To avoid skin contact, keep a safe distance and wear suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Alert non-emergency personnel. Avoid substance contact. Do not breathe vapor, aerosol. Make sure that there is good ventilation. Keep away from heat and anything that can cause ignition. Evacuate the danger area, carry out emergency procedures, consult a professional.

6.2 Environmental precautions

Prevent from entering soil, ditches, drains, waterways and/or groundwater.

6.3 Methods and material for containment and cleaning up

If possible, save material and limit the spill area. Absorb with materials such as: Sand. Collect in suitable and properly labeled containers.

6.4 Reference to other sections

No data available.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special measures are required.

Hygiene measures: Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place. Avoid moisture. Store between 5-25°C.

7.3 Specific end use(s)

No data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no ingredients with exposure limits.

8.2 Exposure controls

8.2.1. Engineering Measures

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Ventilation: General and / or local exhaust ventilation is recommended to control airborne levels below exposure guidelines.

8.2.2. Personal protective equipment

Eye/Face Protection: Use safety glasses. Safety glasses should comply with EN 166 or equivalent.

Skin Protection: Use protective clothing chemically resistant to this material in the event of prolonged or frequent contact. The choice of specific items such as a face shield, boots, apron, or full body suit will depend on the task.

Hand protection: In full contact Glove material: Nitrile rubber Glove thickness: 0.11 mm Break through time:> 480 minutes In splash contact

Glove material: Nitrile rubber Glove thickness: 0.11 mm Break through time:> 480 minutes

Protection of Respiratory System: In most cases, respiratory protection is not required; however, if material is heated or sprayed, use an approved air-purifying respirator. Use the following CE approved air-purifying respirator: Organic vapor cartridge with particulate pre-filter, type AP2.

8.2.3. Environmental exposure control

No data available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid

Color: Colorless

Odor: Odorless

Flash Point: 199 ° C

Ignition Point: Data not available

Boiling Point: 290 ° C

Decomposition Temperature: > 290 ° C

Explosion / Flammability Limits: 2.6% (v/v) 11.3% (v/v)

Explosive Properties: Not classified as explosive.

Flammability (solid / gas): Not flammable.

Melting Point: 18 ° C

Freezing Point: 66.7 glycerol solution 46.5 ° C

Vapor Pressure: < 0.01 hPa

Solubility in Water: Soluble in water.

Partition coefficient: n-octanol / water logPOW: -1,76 Bioaccumulation is not expected.

Relative density: 1.26 g/cm³

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pH: Neutral

Dynamic Viscosity: 1,412 mPa.s

10. STABILITY AND REACTIVITY

10.1 Reactivity

Vapors can form explosive mixtures in air.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

There is a risk of explosion with halogens, strong oxidizing agents, nitric acid, sulfuric acid, hydrogen peroxide, perchlorates. With potassium permanganate, chromium, halogen oxides hydrides there is a risk of explosion or of forming flammable gases or vapors. It can form an exothermic reaction with phosphorus oxides.

10.4 Conditions to avoid

Strong heating and spark.

10.5 Incompatible materials

Avoid contact with: Strong oxidants and strong alkalines.

10.6 Hazardous decomposition products

No data available.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute oral toxicity: LD50 rat: 12600 mg/kg

Symptoms: Vomiting, diarrhea

Skin irritation No irritation.

Eye irritation No irritation.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

No data available.

12.2. Persistence and degradability

It is easily soluble in nature by itself.

12.3. Bioaccumulative potential

logPOW: -1.76 Bioaccumulation is not expected.

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12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment has not been performed.

12.6. Other adverse effects

Discharge to the environment should be prevented.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Any disposal practices must comply with all local and national laws and regulations. Do not pour into any sewers, ground or any body of water. It should not be mixed with household waste.

14. TRANSPORT INFORMATION

14.1. UN Number: Transport information has not been regulated for it is not dangerous goods.

14.2. UN proper shipping name: Not regulated.

14.3. Transport hazard class(es): Not regulated.

14.4. Packing group: Not regulated.

14.5. Environmental hazards

No data available.

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

15. REGULATORY INFORMATION

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

- Regulation on Classification, Labeling and Packaging of Substances and Mixtures
- Regulation on Safety Data Sheets for Hazardous Substances and Mixtures
- Regulation on Health and Safety Measures in Working with Chemical Substances.
- Regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals
- Regulation on the transport of dangerous goods by road
- Regulation on the Use of Personal Protective Equipment at Workplaces.

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- Occupational Health and Safety Law
- Regulation on the Classification, Packaging and Labeling of Dangerous Goods

EU legislation

- The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008)
- Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)
- REACH Regulation (Regulation (EU) 2016/1688 concerning REACH)
- Safety Data Sheet according to Regulation EC 1907/2006 (REACH) with its amendment regulation EC 2015/830
- European Agreement concerning the International Carriage of Dangerous Goods by Road/ Regulations concerning the International Carriage of Dangerous Goods by Rail
- International Civil Aviation Organization / International Air Transport Association Dangerous Goods Regulation

15.2. Chemical safety assessment

No data available.

16. OTHER INFORMATION

Update: Prepared in accordance with the Regulation on Safety Data Sheets for Hazardous Substances and Mixtures (Date of 13 December 2014, Official Newspaper No. 29204).

Abbreviations:

ACGIH American Conference of Government Industrial Hygienists
CAS Chemical Abstract Service
CERCLA Comprehensive Environmental Response, Compensation&Liability Act
CFR Code of Federal Regulations
CPR Controlled Products Regulations (Canada)
DOT Department of Transportation
IARC International Agency for Research
MSHA Mine Safety and Health Administration
NIOSH National Institute for Occupational Safety and Health
NTP National Toxicity Program
OSHA Occupational Safety and Health Administration
PEL Permissible Exposure Limit
RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act
TLV Threshold Limit Value
TWA Time-weighted Average
WHMIS Workplace Hazardous Material Information System

Information Sources:

This MSDS is arranged according to the information received from the company that owns the product.

Chemical Safety Assessment Specialist

Name-Surname: SAİME ÖZGE AYDIN



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Chemical Safety Assessment Specialist Certificate No: TUV/11.01.03

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Document Validation Date: 14.09.2023

Use the identified substance or preparation for special purpose only. This safety data sheet has been prepared in accordance with the information received from the company LEGEND KİMYA SAN. VE TİC. A.Ş. and is the most current information available as of the date of publication. Information provided; it is designed only to help secure transportation, use, storage, destruction. This document and the information given do not constitute a guarantee for any particular property of the substance or preparation and the quality specification is not considered. The information in this form pertains to the specific material (s) specified in this document and does not apply to materials used in conjunction with or in connection with any other materials or materials that have been altered or processed unless otherwise specified in the text.