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Revision:

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

1.1 Product identifier

Name of the product: **GLYCERINE 99,5; GLYCERINE 99,5 PHARMA**

Product identifier: 1, 2, 3 – propanetriol

Registration Number of the substance: product is exempted from registration

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

Identified uses: Food and feed industry, chemical, rubber, cosmetic, pharmaceutical and textile industry, production of explosives

Uses advised against: not identified

1.3 Details of the supplier of the safety data sheet

Company/undertaking:

Oleochem, akciová společnost

Žukovova 30, 400 03 Ústí nad Labem

Tel: +420 731 452 192

Responsible person: e-mail: bendova@oleochem.cz

1.4 Emergency telephone number Toxicological Information Center - TIS

CZ: +420 224 91 92 93, +420 224 91 54 02 , +420 224 91 45 75, +420 224 97 11 11

2. HAZARDS IDENTIFICATION

This SDS is not required by Article 31 of Regulation 1907/2006 as the relevant substance is not classified as hazardous, however, to comply with Article 32 of REACH and provide customers with relevant information the format of the SDS (according to Regulation (No) 830/2015) has been used.

2.1 Classification of the substance or mixture

According to 1272/2008/ES: this product is not classified as hazardous

According to 67/548/EHS, 1999/45/ES: this product is not classified as hazardous

2.2 Label elements

Not relevant.

2.3 Other hazards

PBT and vPvB assessment: This substance is not considered to be PBT nor vPvB.

Other hazards:

3. COMPOSITION/INFORMATION ON INGREDIENTS

Identifier	CAS/ EINECS/ Registration number	Classification 67/548/EHS	Classification 1272/2008/ES	Content (%)
1,2,3 – propanetriol	56-81-5/ 200-289-5/ exempted from registration	not classified	not classified	> 99,5

Full text of H, EUH, P R and S-Phrases is listed in point 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

After inhalation: Leave contaminated area, move to fresh air. Get medical attention if symptoms as dyspnoea, tachypnoea (panting), cough, burn in mouth and throat occur.

After skin contact: Remove contaminated clothing and wash the skin with soap and water.

After eye contact: Flush immediately with distilled or potable water.

After ingestion: Wash out mouth with water. Obtain medical attention without delay. DO NOT INDUCE VOMITING.

4.2 Most important symptoms and effects, both acute and delayed

Contact with undiluted product may cause mild skin irritation. When ingestion of large quantities may cause light-headedness, headache, cyanosis, kidney pain and diarrhea and bleeding. Fire will produce acrolein, which has a strong irritating effect on the eyes and the respiratory tract (pulmonary edema).

4.3 Indication of any immediate medical attention and special treatment needed

In case of fire: transport injured persons only in lying position, in case of breathing problems in a half-sitting position, and when there is a risk of losing consciousness, in a stabilised position with an injured person lying on his/her side. There exists a risk of pulmonary oedema resulting from acrolein action, with a latency period of up to 2 days, often without initial symptoms.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Foam, carbon dioxide, powder.

Extinguishing media to be avoided: Water in initial stages of fire.

5.2 Special hazards arising from the substance or mixture

Acrolein is released as a product of combustion causing a strong irritation of eyes, and respiratory tract.

Symptoms: Burn of eyes and skin. The maximum permissible exposure period in areas with 5.5 ppm acrolein in air is 20 seconds. Vapours, which are heavier than air, form a mixture with air that can be explosive under certain conditions (at concentration 2.6 – 11.3 vol. %).

When heating the product over 160 °C: vacate affected area, do not smoke, do not work with fire, stop motors, switch sparking off, water-cool tanks and containers, make ready self-contained breathing apparatus, inform firemen and police.

5.3 Advice for firefighters

Chemical-resistant rubber gloves, eye protection, self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid ingestion, and direct contact with eyes and skin.

6.2 Environmental precautions

Cover the contaminated area with sorbent (sand, dry soil, limestone, Vapex). Then collect the sorbent with absorbed material, place it in closed containers, and dispose. Prevent to pollute water resources, inform users and processors of flowing water.

6.3 Methods and material for containment and cleaning up

According to corresponding waste disposal regulations

6.4 Reference to other sections

Additional advice: refer to section 8, 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid ingestion, and direct contact with eyes and skin. Observe regulations for handling chemicals and observe general hygiene regulations. Do not eat, drink and do not smoke when working with the product.

7.2 Conditions for safe storage, including any incompatibilities

Keep the material at 25 °C - 35 °C. If the product is transported and stored according to this material safety data sheet, the producer guarantees the product quality 6 month from the date of production.

7.3 Specific end use(s)

Not determined

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

No relevant control limits.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Protect from light, ensure ventilation

8.2.2 Occupational exposure controls

Respiratory protection: Use respirator equipped with an organic substance and acidic gas filter.

Hand protection: Chemical-resistant rubber gloves

Eye / face protection: Protective glasses or facial protective shield

Skin protection: Appropriate protective clothing

8.2.3 Environmental exposure

controls No relevant environmental exposure controls

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State: liquid (at 20 °C)

Colour: colourless, yellow to brown

Odour: characteristic

pH: neutral to slightly alkaline

Boiling point / boiling range (°C): not determined

Melting point / freezing point (°C): cca 18°C

Flash point (°C): approx. 180

Flammability (solid, gas): Combustible substance of 4th class according to Czech Norm CSN 650201. When heated at flash point itself or surrounding materials/equipment heated at 50 % of flash point, the product is regarded as combustible substance of 3rd class.

Explosive properties: Vapours, which are heavier than air, form a mixture with air that can be explosive under certain conditions (at concentration 2.6 – 11.3 vol %).

Oxidising properties: not determined

Vapour pressure: not determined

Relative density (g/cm³): approx. 1,2 (20°C)

Solubility: not determined

Water solubility (g/l): soluble

Partition coefficient: n-octanol/water: not determined
Auto-ignition temperature (°C): 400
Viscosity: not determined
Vapour density: not determined
Evaporation rate: not determined
Other information: not determined

9.2 Other information

Miscibility: ethanol, cresol, diethyl formamide, diisopropyl amine, pyridine
Fat solubility (oil to be specified): almost insoluble
Conductivity: not determined
Gas group: does not apply

10. STABILITY AND REACTIVITY

10.1

Reactivity Not determined.

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

Not determined.

10.4 Conditions to avoid

The temperature of the product must not exceed 100 °C.

10.5 Incompatible materials

Strong oxidising and agents, strong bases

10.6 Hazardous decomposition products

Acrylaldehyde (acrolein)

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: LD50/oral/rat >10 g/kg
Skin corrosion/irritation: Skin mildly irritating (Lit.)
Serious eye damage/irritation: Eye mildly irritating (Lit.)
Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
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: Based on available data, the classification criteria are not met.
STOT- repeated exposure: Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.

Other information: Not determined.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

LC 50 (96 h, fish, mg/l): 96h, LC50 54 g/l
EC 50 (48 h, daphnia, mg/l): 24h, EC50 10 g/l
LC 50 (72 h, algae, mg/l): 16h, EC50 > 10g/l

Other hazards:

12.2 Persistence and degradability

Readily biodegradable.

12.3 Bioaccumulative

potential Low bioaccumulation potential.

12.4 Mobility in soil

Low potential for sorption to soil. Glycerol will partition primarily to water

12.5 Results of PBT and vPvB

assessment Not determined.

12.6 Other adverse effects

Not determined.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Follow national or regional provisions in force.

Handling with wastes is regulated by Council Directive 75/442/EEC of 15 July 1975 on waste and Council Directive 91/689/EEC of 12 December 1991 on hazardous waste.

14. TRANSPORT INFORMATION

UN number, UN proper shipping name, Transport hazard class (es), Packing group

Not hazardous product for transport

14.1 Environmental hazards

None

14.2 Special precautions for user

None

Remarks: EmS:

Other transport information:

14.3 Transport in bulk according to Annex II of MARPOL73/78 and the

IBC Code Not applicable

15. REGULATORY INFORMATION

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

Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a 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.

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.

Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.

Council Directive 75/442/EEC of 15 July 1975 on waste.

Council Directive 91/689/EEC of 12 December 1991 on hazardous waste.

Council Directive 94/55/EC of 21 November 1994 on the approximation of the laws of the Member States with regard to the transport of dangerous goods by road.

Council Directive 96/49/EC of 23 July 1996 on the approximation of the laws of the Member States with regard to the transport of dangerous goods by rail.

Council Directive 1999/13/EC of 11 March 1999 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations.

Council Directive 89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work.

Other regulatory information:

15.2 Chemical safety assessment

Not required

16. OTHER INFORMATION

H, P, R, S - Phrases wording:

Revision data:

Other information: