



Material Safety Data Sheet

Glycerin 99,5%

Date: 24 mar 2017

Revision: 03 replace 2.sept 2016

1. Identification of the substance/mixture and the producer.

Product:

Tradename: E-Glycerin 99,5%

Substance: Glycerine

CAS-no.: 56-81-5

EC-no: 200-289-5

REACH Not subject to registration according to Annex V of Regulation (EC) No 1907/2006 of the European parliament and of the council [REACH]

Identified uses and uses advised against:

Food ingredient and technical use.

Company identification

Emmelev A/S

Emmelevgyden

25 5450 Otterup

Phone: +45 6482 2540

Fax.: +45 6482 3322

e-mail: mail@emmelev.dk

Emergency telephone number : 112

2. Hazards identification:

Classification of the substance

Product is not classified as dangerous according to Regulation (EC) No 1272/2008 [CLP]:

In case of Fire may cause evolution of Acrolein (Toxic by inhalation)

Label

Not relevant – product is not classified as hazardous.

3. Composition/information on ingredients:

Name	CAS no.:	EINECS	Weight %	Formula	Molar mass	symbol	R-phrases
Glycerin	56-81-5	200-289-5	>99,5	C ₃ H ₈ O ₃ (Hill)	92,1	-	-

4. First Aid measure:

Inhalation: Move to fresh air. Seek medical attention if symptoms persist

Ingestion: Do not induce vomiting. Wash out mouth with water. If conscious, give one or two glasses of water to drink. If gastro-intestinal symptoms develop, consult medical personnel. Never give anything by mouth to an unconscious person.

Eyes: Flush eyes immediately with large amounts of water for at least 15 minutes. Keep eyelids apart. Seek medical attention if symptoms persist.

Skin: Wash skin with plenty of soap and water. Remove all contaminated clothes and footwear.



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5. Fire-fighting measures:

Extinguishing media:

Appropriate Water, Foam, Water spray (fog), Dry chemical powder and CO₂

Unsuitable None

Special hazards: Combustible. Vapours heavier than air.

In case of fire Forms explosive mixtures with air on intense heating.

In case of fire Development of hazardous combustion gases and vapours possible in the event of fire.
The following may develop in event of fire: Acrolein

Protective equipment Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Other information Prevent fire-fighting water from entering surface water or groundwater.

6. Accidental release measures:

Personal precautions Do not inhale vapours/aerosols.
See section 8 for personal protection measures.

Environmental Do not discharge into drains or rivers. Contact the local authorities in case of pollution.

Methods for cleaning Cover drains. Absorb in liquid-absorbent non-flammable material (e.g. Chemizorb ®).

Disposal National regulations.

7. Handling and Storage:

Handling: Avoid contact with eyes and skin. Avoid inhalation of vapours/aerosols.

Storage: In tight-fitting packing or tanks.

8. Exposure controls/personal protection:

Control parameters

Control parameters Not required.

Monitoring procedure Not required.

Exposure controls

Technical Use sufficient ventilation when working at elevated temperatures to avoid vapours.

Personal protective equipment

Respiratory protection Wear approved respiratory protective devices when aerosol or mist is formed (Filter A/P2)

Hand protection Wear suitable gloves. Gloves should be chosen in consultation with the glove supplier, with information on effects from other substances in the work place.
Nitrile Rubber gloves of thickness 0,11 mm is recommended.

Eye protection Wear suitable safety goggles or face shield when risk for mists or splashing.

Body protection Wear normal work clothes.

Environmental exposure controls

Do not discharge into drains or rivers. Contact the local authorities in case of pollution.



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9. Physical and chemical properties:

Physical state	Liquid
Colour	Colourless
Odour	Odourless
Odour threshold	Not applicable
pH-value	app. 5 (100 g/l at 20°C)
Melting point	18 °C
Boiling point	290 °C at 1.013 hPa (decomposition)
Flash point [c.c.]	199 °C
Flammability (solid,gas)	No information available
Lower explosion limit	2,6 %(V)
Upper explosion limit	11,3 %(V)
Vapour pressure	<0,001 hPa at 20 °C
Relative vapour density	3,18
Density at 20 °C	1,26 kg/m ³
Water solubility	Soluble
Partition coefficient: n-octanol/water	Log Pow = -1,76
Viscosity, dynamic	app. 1.300 mPa·s ved 20 °C
Auto-ignition temperature	No information available
Decomposition temperature	>290 °C

10. Stability and reactivity:

Reactivity	Forms explosive mixtures with air on intense heating.
Possibility of Hazardous reactions	Risk of explosion with: Halogens, Strong oxidizing agents, Peroxide compounds, Nitric acid, Conc. Sulphuric acid, Hydrogen peroxide, Perchlorates, Nitriles
Exothermic reaction	Oxides of phosphorus
Chemical stability	The product is stable at normal conditions
Conditions to avoid	Keep away from strong heat.
Materials to avoid	Oxidizing agents (risk of explosion)
Hazardous Decompositions	In the event of fire Acrolein (Toxic by inhalation) may be developed.



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11. Toxicological information:

Acute oral toxicity	LD 50 rat	Dose: 12.600 mg/kg	symptoms: Vomiting, gastric pain, Diarrhoea
Acute dermal toxicity	LD 50 rabbit	Dose: > 18.700 mg/kg	
Skin irritation	Rabbit	Result: No irritation	
Eye irritation	Rabbit	Result: No irritation (OECD TG 405)	
Sensitisation	Human	Result: Negative	
Repeated dose toxicity	Substance is not classified as specific target organ toxicant, repeated exposure.		
Genotoxicity in vitro	Ames test	Result: Negative	
Reproductive toxicity	No effect observed		

12. Ecological information:

Toxicity

Fish	LC 50 (24 h)	Leuciscus idus	Dose: > 10.000 mg/l
Daphnia and other aquatic invertebrates	EC 50 (24 h)	Daphnia magna	Dose: > 10.000 mg/l
Bacteria	EC 50 (24 h):	Pseudomonas putida	Dose: > 10.000 mg/l

Persistence and degradability

Degradability	The product is readily biodegradable		
BOD (Biochemical Oxygen Demand)	870 mg/g (5 d)		
COD (Chemical Oxygen Demand)	1.160 mg/g		
Bioaccumulative	Not expected		
Mobility in soil	No information available		
PBT- og vPvB-assessment	No PBT No PvB		
Other adverse effects	The product is considered stable in the environmental range of pH.		

13. Disposal considerations:

Waste treatment

Product	Disposal must be made according with National and Local regulations.		
Uncleaned packaging	Same as product		
European Waste Catalogue	07.01.99	Wastes not otherwise specified.	



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14. Transport information:

Not classified as hazardous goods

15. Regulatory information:

Labelling Not classified as hazardous.

Safety Assessment A Chemical Safety Assessment has not been carried out for the substance

16. Other information:

This Safety Data Sheet is based upon our present knowledge and experience and it is intended to be understood as a description for safe handling of the product regarding to health and environmental aspects and is not a guarantee for the properties of the product.

It is always the responsibility of the user to comply with national legislations.