

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

GLYCERIN 99,5% / CAN 20 KG FD

Version 6.0

Print Date 07.01.2022

Revision date / valid from 17.03.2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Trade name : GLYCERIN 99,5% / CAN 20 KG FD
Substance name : Glycerol
CAS-No. : 56-81-5
EC-No. : 200-289-5
REACH Status : Substance is exempted from registration obligations according to Article 2 (7) (b) (Annex V.9) of the Regulation (EC) No 1907/2006

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

Use of the Substance/Mixture : Industrial use, Professional use
Uses advised against : At this moment we have not identified any uses advised against
Remarks : This material is available in several different qualities. Before using, make sure to check the quality grade of the product you have received.

1.3. Details of the supplier of the safety data sheet

Company : Brenntag Nordic A/S
Borupvang 5 B
DK 2750 Ballerup
Telephone : +45 43 29 28 00
Telefax : +45 43 29 27 00
E-mail address : SDS.DK@brenntag-nordic.com
Responsible/issuing person : Environment & Quality

1.4. Emergency telephone number

Emergency telephone number : In case of personal injury call:
Denmark: 82 12 12 12 Giftlinien, Bispebjerg Hospital
Finland: Poison Information Centre: (09) 471 977 (direct) or (09) 47 11 (exchange), open 24h/day
Norway: 22 59 13 00 Giftinformasjonen (døgnåpent)
Sweden: +46-8-331231 Giftinformationscentralen (24 hour service)
Outside these countries: Please call your local emergency services

GLYCERIN 99,5% / CAN 20 KG FD**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

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

Most important adverse effects

- Human Health : Eye contact may cause the following effects:, Splash in the eyes may cause discomfort.
- Physical and chemical hazards : In case of fire hazardous decomposition products may be produced such as:, acrolein
- Potential environmental effects : According to available data, this product is not harmful to the environment.

2.2. Label elements**Labelling according to Regulation (EC) No 1272/2008**

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

Additional Labelling:

EUH210 Safety data sheet available on request.

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

SECTION 3: Composition/information on ingredients**3.1. Substances****Non-hazardous component**

Chemical name	Identification Number	Amount [%]
Glycerol	CAS-No. : 56-81-5 EC-No. : 200-289-5	<= 100

SECTION 4: First aid measures

GLYCERIN 99,5% / CAN 20 KG FD**4.1. Description of first aid measures**

- If inhaled : Move to fresh air.
- In case of skin contact : Wash off with soap and water.
- In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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

- Symptoms : See Section 11 for more detailed information on health effects and symptoms.
- Effects : See Section 11 for more detailed information on health effects and symptoms.

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

- Treatment : Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet

5.2. Special hazards arising from the substance or mixture

- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as: Carbon oxides, Acrolein is produced under fire conditions.

5.3. Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Choose protective equipment according to size of fire.
- Further advice : Cool closed containers exposed to fire with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

GLYCERIN 99,5% / CAN 20 KG FD**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions : For personal protection see section 8. Danger of slipping if spilled

6.2. Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal.

Further information : Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Advice on safe handling : Ensure adequate ventilation. Keep container tightly closed. Avoid contact with skin, eyes and clothing.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep containers tightly closed in a cool, well-ventilated place. Store in original container.

Further information on storage conditions : Keep away from sources of ignition - No smoking. Keep away from heat.

Advice on common storage : Keep away from food, drink and animal feedingstuffs. Incompatible with oxidizing agents.

7.3. Specific end use(s)

Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection

GLYCERIN 99,5% / CAN 20 KG FD

8.1. Control parameters

Component:	Glycerol	CAS-No. 56-81-5
Other Occupational Exposure Limit Values		

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, An. 2 & 3, as amended, Threshold Limit Values (TLV):, Total dust.
3 mg/m³

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice : Required if vapours or aerosol are released.
Recommended Filter type:
Combination filter: A-P2

Hand protection

Advice : Protective gloves complying with EN 374.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Protective gloves should be replaced at first signs of wear.

Material : Natural Rubber
Break through time : ≥ 8 h
Glove thickness : 0,5 mm

Material : polychloroprene
Glove thickness : 0,5 mm

Material : butyl-rubber
Glove thickness : 0,5 mm

Material : Fluorinated rubber
Glove thickness : 0,4 mm

Material : Polyvinylchloride
Glove thickness : 0,5 mm

GLYCERIN 99,5% / CAN 20 KG FD*Eye protection*

Advice : Safety glasses

Skin and body protection

Advice : Protective work clothing

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	:	liquid
Colour	:	colourless
Odour	:	odourless
Odour Threshold	:	Not applicable
pH	:	ca. 7
Freezing point/range	:	-10 °C 86,5% 18 °C 99,5%
Boiling point/boiling range	:	ca. 130 °C 86,5% ca. 290 °C 99,5%
Flash point	:	191 °C (Method: closed cup)
Evaporation rate	:	no data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit	:	11,3 %(V)
Lower explosion limit	:	2,6 %(V)
Vapour pressure	:	0,001 hPa (40 °C) 0,003 hPa (50 °C)
Relative vapour density	:	1,0
Density	:	1,228 g/cm ³ (20 °C) 86,5% 1,26 g/cm ³ (20 °C) 99,5%
Water solubility	:	completely soluble
Partition coefficient: n-octanol/water	:	log Kow -1,76
Auto-ignition temperature	:	370 °C

GLYCERIN 99,5% / CAN 20 KG FD

Thermal decomposition	:	> 290 °C
Viscosity, dynamic	:	1,412 mPa.s (20 °C)
Viscosity, kinematic	:	no data available
Explosive properties	:	EU legislation: Not explosive
Explosivity	:	Not applicable
Oxidizing properties	:	not oxidising

9.2. Other information

Molecular weight	:	92,1 g/mol
------------------	---	------------

SECTION 10: Stability and reactivity**10.1. Reactivity**

Advice	:	No decomposition if stored and applied as directed.
--------	---	---

10.2. Chemical stability

Advice	:	Stable under recommended storage conditions.
--------	---	--

10.3. Possibility of hazardous reactions

Hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
---------------------	---	---

10.4. Conditions to avoid

Conditions to avoid	:	Heat, flames and sparks.
Thermal decomposition	:	> 290 °C

10.5. Incompatible materials

Materials to avoid	:	Incompatible with strong acids and oxidizing agents.
--------------------	---	--

10.6. Hazardous decomposition products

Hazardous decomposition products	:	Acrolein is produced under fire conditions.
----------------------------------	---	---

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Data for the product****Acute toxicity**

GLYCERIN 99,5% / CAN 20 KG FD
Oral

This material may be a slight health hazard if ingested in large quantities.

Inhalation

Inhalation of high concentration may cause mechanical overstraining of mucous membranes.

Irritation
Skin

Result : No skin irritation

Eyes

Result : Splash in the eyes may cause discomfort.

Sensitisation

Result : No sensitizing effect known by skin contact.

CMR effects
CMR Properties

Carcinogenicity : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Reproductive toxicity : Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity
Single exposure

Remarks : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Repeated exposure

Remarks : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Other toxic properties
Aspiration hazard

No aspiration toxicity classification,

Component: **Glycerol** **CAS-No. 56-81-5**

Acute toxicity
Oral

LD50 : 12600 mg/kg (Rat)

GLYCERIN 99,5% / CAN 20 KG FD**Dermal**

LD50 : > 18700 mg/kg (Rabbit)

SECTION 12: Ecological information**12.1. Toxicity**

Component:	Glycerol	CAS-No. 56-81-5
-------------------	-----------------	------------------------

Acute toxicity**Fish**

LC50 : > 10.000 mg/l (Leuciscus idus (Golden orfe))

Toxicity to daphnia and other aquatic invertebrates

LC50 : > 10.000 mg/l (Daphnia magna)

Bacteria

EC50 : > 10000 mg/l (Pseudomonas putida; 16 h)

12.2. Persistence and degradability

Component:	Glycerol	CAS-No. 56-81-5
-------------------	-----------------	------------------------

Persistence and degradability**Biodegradability**

Result : Readily biodegradable.

12.3. Bioaccumulative potential**Data for the product****Bioaccumulation**

Result : no data available

12.4. Mobility in soil**Data for the product**

GLYCERIN 99,5% / CAN 20 KG FD
Mobility

Result : no data available

12.5. Results of PBT and vPvB assessment
Data for the product
Results of PBT and vPvB assessment

Result : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects

Component:	Glycerol	CAS-No. 56-81-5
-------------------	-----------------	------------------------

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

SECTION 13: Disposal considerations
13.1. Waste treatment methods

Product : In accordance with local and national regulations.

Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.

European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information

Not dangerous goods for ADR, RID, IMDG and IATA.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

GLYCERIN 99,5% / CAN 20 KG FD**14.3. Transport hazard class(es)**

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG : Not applicable.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Data for the product**

EU. REACH, Annex XVII, : ; The substance/mixture does not fall under this legislation.
Marketing and Use
Restrictions (Regulation
1907/2006/EC)

EU. REACH Candidate : ; Not listed
List of Substances of
Very High Concern for
Authorization (SVHC)

EU. REACH Annex XIV, : ; Not listed;
Substances Subject to
Authorization

Other regulations : Only persons, who are thoroughly instructed in the dangerous
properties and the necessary safety precautions of the
substance, are allowed to work with it.

Component:	Glycerol	CAS-No. 56-81-5
------------	----------	-----------------

EU. Regulation No : EC Number: , 200-289-5; Listed
1451/2007 [Biocides],
Annex I, OJ (L 325)

GLYCERIN 99,5% / CAN 20 KG FD

EU. Directive : ; The substance/mixture does not fall under this legislation.
2012/18/EU (SEVESO
III) Annex I

Notification status

Glycerol:

Regulatory List	Notification	Notification number
AICS	YES	
DSL	YES	
EINECS	YES	200-289-5
ENCS (JP)	YES	(2)-242
IECSC	YES	
ISHL (JP)	YES	(2)-242
JEX (JP)	YES	(2)-242
KECI (KR)	YES	KE-29297
NZIOC	YES	
PHARM (JP)	YES	
PICCS (PH)	YES	
TSCA	YES	

15.2. Chemical safety assessment

no data available

SECTION 16: Other information

Abbreviations and Acronyms

BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level

GLYCERIN 99,5% / CAN 20 KG FD

NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
PBT	persistent, bioaccumulative and toxic
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
PNEC	predicted no-effect concentration
STOT	specific target organ toxicity
SVHC	substance of very high concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
vPvB	very persistent and very bioaccumulative

Further information

Key literature references and sources for data	:	Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
Methods used for product classification	:	The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.
Hints for trainings	:	The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.
Other information	:	<p>The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.</p> <p>The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.</p>

|| Indicates updated section.