

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Revision date: 2021-01-25
Revision No.: 5
Supersedes: 2018-01-25

Trade Name: **GELITA® Gelatine**

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

1.1 Product identifier:

Substance name: GELITA® Gelatine sold under different trade names.
Including GELITA Gelatine Food & Pharmaceutical Grade.
CAS-No.: 9000-70-8
Index-No.: -
EC-No.: 232-554-6
REACH No.: Registration not necessary.
Authorisation No: -

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

Relevant identified uses: For edible, pharmaceutical and technical applications.
Uses advised against: -

1.3 Details of the supplier of the safety data sheet:

Manufacturer / Supplier: GELITA Sweden AB
Street / Post Box: Box 502
Country/Postal Code/City: SE-264 23 KLIPPAN, SWEDEN

Information contacts
- technical: +46 435 26567
- commercial: +46 435 26505
E-Mail: info.sweden@gelita.com

1.4 Emergency telephone number: +46 435 26501 (outside office hours)

2. HAZARDS IDENTIFICATION *

2.1 Classification of the substance or mixture:

No hazardous substance or hazardous mixture according to Regulation (EC) No. 1272/2008.

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

According to Regulation (EC) No. 1272/2008 the product does not require a label.

Hazard Pictograms: None.
Signal word: None.
Hazard statements: None.
Precautionary statements: None.
Supplemental hazard information: None.

2.3 Other hazards: None.

3. COMPOSITION/INFORMATION ON INGREDIENTS *

3.1 Substances:

Substance name: Gelatine. Animal based protein derived from collagen.
Stabilisers: None.
Hazard impurities: None.

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3.2 Mixtures: Not applicable. The product is not a mixture.

Product Identifier	Concentration:	CAS-No.:	EC-No.:	Index No.:	REACH Reg. No.:	Classification acc. to Reg (EC) No. 1272/2008
Gelatine	100%	9000-70-8	232-554-6	-	Exempt	None

INCI: GELATIN

4. FIRST AID MEASURES *

4.1 Description of first aid measures:

General information: No special measures required. In case of persisting effects, consult a physician.

Following inhalation: Fresh air. Contact a physician if symptoms persist.

Following skin contact: Wash off with water and soap.

Following eye contact: Remove lenses. Rinse eyes thoroughly with luke-warm water for several minutes. Seek medical advice if irritation occurs and persists.

Following ingestion: Rinse mouth with water. Never give anything by mouth to an unconscious person. Contact a physician if symptoms persist.

Self-protection of the first aider: No special measures required.

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

Not known.

4.3 Indications of any immediate medical attention and special treatment needed:

No data available.

5. FIREFIGHTING MEASURES *

5.1 Extinguishing media:

Suitable extinguishing media: Fire-fighting measures should be suited to the surroundings. Water spray, foam, dry chemical powder or carbon dioxide.

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture:

In the event of fire, the following can be released: Carbon dioxide (CO₂), Carbon monoxide (CO), Nitrogen oxides (NO_x).

5.3 Advice for firefighters:

Use self-contained breathing apparatus. Wear protective clothing.

6. ACCIDENTAL RELEASE MEASURES *

6.1 Personal precautions, protective equipment and emergency procedures:

Good hygiene practice. Avoid contact with skin, eyes and clothing. Particular danger of slipping on spilled product especially if wet as it creates a slippery surface.

6.2 Environmental precautions:

Avoid discharge into the drains/surface waters/groundwater and into the subsoil/soil.

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6.3 Methods and material for containment and cleaning up:

Take up mechanically. Avoid raising dust.

6.4 Reference to other sections:

For protective equipment see section 8. Disposal see section 13.

7. HANDLING AND STORAGE *

7.1 Precautions for safe handling:

Fire preventions: Keep away from flammable substances, naked flames and heat sources. Avoid the formation and deposition of dust. Fine dust can form an explosive mixture with air.

Aerosol and dust generation preventions: Assure adequate ventilation at the workplace. In case of airborne dust use aspiration. Install measures against electrostatic charging.

Environmental precautions: Collect separately and dispose.

Advice on general occupational hygiene: Handle in accordance with good industrial hygiene and safety procedures. If dust cannot be avoided, safety glasses, skin protection and a dust mask will reduce the risk of irritation.

7.2 Conditions for safe storage, including any incompatibilities:

Technical measures and storage conditions: Use suitable food packaging. Keep container tightly closed in a dry and odorless place at room temperature. Protect from heat and direct sunlight. Do not store with strong oxidizing agents or aldehyde releasing substances. Product will have a minimum shelf life of 5 years when stored in original packaging at recommended storage conditions.

Requirements for storage rooms or vessels: Containers which are opened must be carefully closed and kept upright to prevent leakage.

Storage classification: As food or class 11 (TRGS 510).

7.3 Specific end use(s):

Industrial sector specific solutions: No data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION *

8.1 Control parameters: No input available on product specific parameters for monitoring.

Occupational exposure limit values and/or biological limit values:

Observe general exposure limits for dust according to National legislation.

Product identifier	CAS No.:	Specification:	Limit:	Peak limit:	Toxicity for reproduction:	Control measures:
-	-	-	-	-	-	-

8.2 Exposure controls:

Appropriate engineering controls: Assure adequate ventilation at the workplace.

Personal protective equipment: Observe general considerations of food hygiene. Working clothes, gloves and chemical type goggles recommended. Personal protective equipment is to be chosen depending on the workplace situation.

Eye/face protection: Safety goggles with side protection shield (EN 166).

Skin protection: Wear suitable protective work clothing.

Gloves:

For full contact:
- Material: No recommendations. Contact gloves manufacturer.

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- Thickness (mm):	-
- Breakthrough time (min):	-
<i>For splashes:</i>	
- Material:	No recommendations. Contact gloves manufacturer.
- Thickness (mm):	-
- Breakthrough time (min):	-
Other skin protection:	Long-armed protective clothing.
Respiratory protection:	Normally not necessary. If necessary dust mask P1.
Thermal hazards:	If handling hot solution wear suitable gloves.
Environmental exposure controls:	See section 6 and 7.

9. PHYSICAL AND CHEMICAL PROPERTIES *

9.1 Information on basic physical and chemical properties:

Appearance:	
- Physical state:	Solid powder/granules.
- Colour:	Light yellow to yellow. As natural product colour can vary.
Odour:	Light, characteristic.
Odour threshold:	No information available.
pH:	4.0 - 7.0 (at 6.67% and 60°C)
Melting point/freezing point:	Decomposition before melting.
Initial boiling point and boiling range:	Not applicable.
Flash point:	No information available.
Evaporation rate:	No information available.
Flammability (solid, gas):	No information available.
Upper/lower flammability or explosive limit:	No information available.
Vapour pressure:	No information available.
Vapour density:	No information available.
Relative density:	No information available.
Solubility(ies):	Soluble in warm water. Swells in cold water.
Partition coefficient: n-octanol/water:	No information available.
Auto-ignition temperature:	No information available.
Decomposition temperature:	No information available.
Viscosity - dynamic:	1 - 11 mPa*s (6.67 %, 60°C).
Viscosity - cinematic:	No information available.
Apparent density:	0,4 - 0,6 g/cm ³
Grain size:	Depending on product type. Standard < 3.3 mm.
Median value:	Depending on product type.
Oxidising properties:	None.

9.2 Other information:

Dust Explosion Data:	
<i>Sample characterization</i>	9 % moisture
- Particle size: 10 % less than:	47 µm
50 % less than:	143 µm
90 % less than:	623 µm
<i>Dust Explosion Risk</i>	<i>Data obtained with sample fraction <63 µm</i>
- Maximum Explosion Pressure	6.4 bar g

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- Maximum Rate of Pressure Rise: 310 bar/s
 - K_{st} value: 84 bar.m/s
 - St Class: St1 (low explosion severity potential)
 - Minimum ignition energy: >500 mJ
 - Minimum ignition temperature: 700°C
 - Minimum explosion Concentration: 105 g/m³
- Thermal Stability Characterisation*
- Layer (5 mm) Ignition Temperature: >400°C

10. STABILITY AND REACTIVITY *

10.1 Reactivity:

The product is sensitive to moisture and odours.

10.2 Chemical stability:

The product is stable under ordinary conditions of use and storage.

10.3 Possibility of hazardous reactions:

Decomposition to carbon dioxide, carbon monoxide and nitrogen oxides at high temperatures.

10.4 Conditions to avoid:

Do not store in humid atmosphere or close to smelling substances.

10.5 Incompatible materials:

Strong oxidizers and humidity.

10.6 Hazardous decomposition products:

Decomposition to carbon dioxide, carbon monoxide and nitrogen oxides.

11. TOXICOLOGICAL INFORMATION *

11.1 Information on hazards classes as defined in Regulation (EC) No 1272/2008:

Substances:

Acute toxicity:	Food grade product. No data available.
Skin corrosion/irritation	No data available.
Serious eye damage/irritation:	No data available.
Sensitisation to the respiratory tract or skin:	No data available.
Germ cell mutagenicity:	No data available.
Carcinogenicity:	No data available.
Reproductive toxicity:	No data available.
STOT-single exposure:	No data available.
STOT-repeated exposure:	No data available.
Aspiration hazard:	No data available.

Mixtures: Not applicable

11.2 Information on other hazards:

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Eye contact may cause mechanical irritation through dust particles. Repeated and prolonged exposure to high dust concentrations may lead to irritation of the respiratory tract.

11.2.1 Endocrine disrupting properties:

None known.

11.2.2 Other information:

Not applicable

12. ECOLOGICAL INFORMATION *

12.1 Toxicity:

No data available (food grade product).

12.2 Persistence and degradability:

The product is readily biodegradable.

12.3 Bioaccumulative potential:

No data available.

12.4 Mobility in soil:

No data available.

12.5 Results of PBT and vPvB assessment:

A PBT and vPvB assessment is not available.

12.6 Endocrine disrupting properties:

None known.

12.7 Other adverse effects:

None known.

13. DISPOSAL CONSIDERATIONS *

13.1 Waste treatment methods:

Treatment of contaminated packaging:

Waste identifier acc. to EWC:

Special precautions

Relevant community/national or regional provisions:

Dispose of packaging according to national and local regulations.

Sweden only: Return through "FTI Förpacknings- och Tidningsinsamlingen"

Allocation of a waste code number, according to the European waste catalogue, should be carried out in agreement with the regional waste disposal company.

None.

None known.

14. TRANSPORT INFORMATION *

14.1 UN number:

None. Non-hazardous material.

14.2 UN proper shipping name:

ADR/RID:

IMDG Code:

The product is not subject to ADR/RID regulations.

The product is not subject to IMDG regulations.

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ICAO-TI: The product is not subject to ICAO regulations.
IATA-DGR: The product is not subject to IATA regulations.

14.3 Transport hazard class(es): None.

14.4 Packing group: None.

14.5 Environmental hazards:

Environmentally hazardous according to
ADR/RID/IMDG Code/ yes / no

ICAO-TI/IATA-DGR:
Marine Pollutant: yes / no

14.6 Special precautions for user: None

14.7 Maritime transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

MARPOL category: X / Y / Z Not relevant.

IBC code: 1 / 2 / 3 Not relevant.

15. REGULATORY INFORMATION *

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

Community legislation, e.g.:

Regulation (EC) No. 2037/2000 on substances that
deplete the ozone layer: Not applicable.

Regulation (EC) No. 850/2004 on persistent organic
pollutants: Not applicable.

Regulation (EC) No. 689/2008 concerning the export and
import of dangerous
chemicals: Not applicable.

Regulation (EC) No. 648/2004 on detergents: Not applicable.

Limitations according to Title VIII of Regulation (EC) No. 1907/2006: The product does not contain substances of very high concern (SVHC) in concentrations above the limits of ≥ 0.1 % (wt/wt).

National legislation (Germany)

Water pollution class: Water pollution class 1. (VwVwS)

Lösemittelverordnung (31. BImSchV): Not applicable.

Störfallverordnung (12. BImSchV): Not applicable.

Technische Anleitung Luft (TA-Luft): Not applicable.

Further relevant legislation: None.

15.2 Chemical safety assessment:

For this substance a chemical safety assessment is not required.

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16. OTHER INFORMATION *

16.1 Indication of changes:

The marked (*) sections of the safety data sheet have been changed compared to the previous version. This revision is updated with a new layout and headlines according to regulation.

16.2 Abbreviations and acronyms:

ADR : European Agreement concerning the international carriage of Dangerous goods by Road
BImSchV : Verordnung zur Durchführung des Bundes-Immissionsschutzgesetzes – Federal Immission Control Act of Germany
CAS : Chemical Abstracts Service
EC : European Community
ECHA : European Chemicals Agency
EU : European Union
EWC: European Waste Catalogue
FCC : Food Chemicals Codex
IATA-DGR : International Air Transport Association-Dangerous Goods Regulations
IBC code : International code for the construction and equipment of ships carrying dangerous chemicals in bulk
ICAO-TI : International Civil Aviation Organization-Technical Instructions
IMDG-Code : International Maritime Code for Dangerous Goods
INCI : International Nomenclature of Cosmetic Ingredients
MARPOL : Maritime Pollution Convention
PBT : Persistent, Bioaccumulative and Toxic
PNEC : Predicted No-Effect Concentration
RID : Regulation concerning the International carriage of Dangerous goods by rail
STOT : specific target organ toxicity
SVHC : substances of very high concern
TA-Luft : Technische Anleitung Luft – Technical instructions on air quality
TRGS : Technische Regeln für Gefahrstoffe – Technical regulations for dangerous goods
UN : United Nations
vPvB : very Persistent and very Bioaccumulative
VwVwS : Verwaltungsvorschrift wassergefährdende Stoffe

16.3 Key literature references and sources for data:

ECHA – echa.europa.eu/search-for-chemicals
Dust explosive data – Test Report S14658R1V1/06, dated 2006-02-21, by Chilworth Technology Ltd.

16.4 Classification for mixtures and used evaluation method according to Regulation (EC) 207/2008 (CLP)

Not applicable.

16.5 Relevant H- and EUH phrases (number and full): None.

16.6 Training advice: Hygienic guidelines for food. Guidelines for food safety and food production.

16.7 Further Information:

This gelatine is fit for human consumption and is not classified as dangerous under REACH and GHS Regulation and as such, this product does not require a SDS. This SDS has been created on a voluntary basis and is for informational and guidance purposes only.

The information provided in this safety data sheet is based on our present state of knowledge and does not certify product characteristics. Further information is defined in the product specification. The consignee of our product is responsible for complying with all relevant laws and regulations.

16.8 Department issuing this safety data sheet: GELITA Sweden AB, Quality Department.