



Gliadin Extraction Additive for Dark Chocolate, Cocoa, and Tannin

Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended
Issue date: 22/08/2025 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Trade name : Gliadin Extraction Additive for Dark Chocolate, Cocoa, and Tannin
Product code : 8482
Type of product : Food Safety -- [Food Safety]
Part Number(s) : 8482|700002582

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Scientific research and development
Laboratory chemicals

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Neogen Corporation
620 Leshar Place
48912 Lansing – Michigan
United States of America
T 800.234.5333
sds@neogen.com - <https://www.neogen.com/>

1.4. Emergency telephone number

Emergency number : 24 hours:
Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)
Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GB CLP (SI 2019:720 as amended)

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to GB CLP (SI 2019:720 as amended)

No labelling applicable

2.3. Other hazards

Results of PBT and vPvB assessment

| Component | |
|--|--|
| Substance(s) not meeting the PBT criteria of UK REACH regulation, in accordance with Annex XIII | Glycerin (56-81-5), Polyvinylpyrrolidone (9003-39-8) |
| Substance(s) not meeting the vPvB criteria of UK REACH regulation, in accordance with Annex XIII | Glycerin (56-81-5), Polyvinylpyrrolidone (9003-39-8) |

Gliadin Extraction Additive for Dark Chocolate, Cocoa, and Tannin

Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

Results of Endocrine Disruptor assessment

| Component | |
|---|--|
| Substance(s) not considered as endocrine disrupting. They are not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, nor identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP | Glycerin(56-81-5), Polyvinylpyrrolidone(9003-39-8) |

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to GB CLP (SI 2019:720 as amended) |
|---|---|---------|---|
| Glycerin substance with workplace exposure limit(s) | CAS-No.: 56-81-5 EC-No.: 200-289-5 | 50 – 75 | Not classified |
| Polyvinylpyrrolidone substance with workplace exposure limit(s) | CAS-No.: 9003-39-8 EC-No.: 201-800-4 | 25 – 50 | Not classified |

SECTION 4: First aid measures

4.1. Description of first aid measures

Self protection of the first-aider : First aid workers will be equipped with suitable personal protective equipment.

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

No additional information available

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

No additional information available

Gliadin Extraction Additive for Dark Chocolate, Cocoa, and Tannin

Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

No additional information available

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No additional information available

7.2. Conditions for safe storage, including any incompatibilities

Storage temperature : 2 – 30

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| Glycerin (56-81-5) | |
|---|---|
| United Kingdom - Occupational Exposure Limits | |
| Local name | Glycerol |
| WEL TWA (OEL TWA) | 10 mg/m ³ mist |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| Polyvinylpyrrolidone (9003-39-8) | |
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) | 10 mg/m ³ 4 mg/m ³ |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

Gliadin Extraction Additive for Dark Chocolate, Cocoa, and Tannin

Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

No additional information available

8.2.2.2. Skin protection

No additional information available

8.2.2.3. Respiratory protection

No additional information available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------|
| Physical state | : Solid |
| Appearance | : Powder. |
| Colour | : Beige. |
| Odour | : Odourless. |
| Odour threshold | : Not available |
| pH | : Not available |
| pH solution | : Not available |
| Melting point | : Not available |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flash point | : Not applicable |
| Flammability | : Not available |
| Explosive limits | : Not applicable |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Relative vapour density at 20°C | : Not applicable |
| Relative density | : Not available |
| Density | : Not available |
| Solubility | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : Not available |
| Viscosity, kinematic | : Not applicable |
| Explosive properties | : Not available |

9.2. Other information

No additional information available

Gliadin Extraction Additive for Dark Chocolate, Cocoa, and Tannin

Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

| Glycerin (56-81-5) | |
|---------------------------------|--|
| LD50 oral rat | 27200 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Female, Experimental value, Oral, 10 day(s)) |
| LD50 dermal | 56750 mg/kg (4 day(s), Guinea pig, Male / female, Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat | > 5.85 mg/l (Equivalent or similar to OECD 412, 4 h, Rat, Male / female, Experimental value, Inhalation (mist), 14 day(s)) |
| LC50 Inhalation - Rat (Vapours) | > 2.75 mg/l Source: ECHA |

| Polyvinylpyrrolidone (9003-39-8) | |
|----------------------------------|---|
| LD50 oral rat | 100000 mg/kg (Rat, Oral) |
| LD50 dermal rat | > 12000 mg/kg (Rat, Dermal) |
| Skin corrosion/irritation | : Not classified (Based on available data, the classification criteria are not met) |

| Glycerin (56-81-5) | |
|--------------------|---------|
| pH | 5.5 – 8 |

| Polyvinylpyrrolidone (9003-39-8) | |
|----------------------------------|---|
| pH | 3 – 7 (5 %) |
| Serious eye damage/irritation | : Not classified (Based on available data, the classification criteria are not met) |

| Glycerin (56-81-5) | |
|--------------------|---------|
| pH | 5.5 – 8 |

| Polyvinylpyrrolidone (9003-39-8) | |
|----------------------------------|-------------|
| pH | 3 – 7 (5 %) |

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Gliadin Extraction Additive for Dark Chocolate, Cocoa, and Tannin

Safety Data Sheet

According to REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Polyvinylpyrrolidone (9003-39-8)

| | |
|------------------------|---|
| IARC group | 3 - Not classifiable |
| Reproductive toxicity | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-single exposure | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) |
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met) |

Glycerin (56-81-5)

| | |
|----------------------|---|
| Viscosity, kinematic | 1121 mm ² /s (20 °C, Calculated) |
|----------------------|---|

Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

Glycerin (56-81-5)

| | |
|----------------------|---|
| LC50 - Fish [1] | 54000 mg/l (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration) |
| EC50 - Crustacea [1] | > 10000 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) |

Polyvinylpyrrolidone (9003-39-8)

| | |
|----------------------|---|
| LC50 - Fish [1] | > 10000 mg/l (96 h, Leuciscus idus) |
| EC50 96h - Algae [1] | 162000 mg/l Source: Ecological Structure Activity Relationships |

12.2. Persistence and degradability

Gliadin Extraction Additive for Dark Chocolate, Cocoa, and Tannin

| | |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

Glycerin (56-81-5)

| | |
|-------------------------------|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |
|-------------------------------|---------------------------------|

Polyvinylpyrrolidone (9003-39-8)

| | |
|-------------------------------|-------------------------------------|
| Persistence and degradability | Not readily biodegradable in water. |
|-------------------------------|-------------------------------------|

12.3. Bioaccumulative potential

Glycerin (56-81-5)

| | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | -1.8 (Experimental value, Equivalent or similar to OECD 107, 25 °C) |
| Bioaccumulative potential | Not bioaccumulative. |

Polyvinylpyrrolidone (9003-39-8)

| | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 0.29 Source: Quantitative Structure Activity Relation |
|---|---|

Gliadin Extraction Additive for Dark Chocolate, Cocoa, and Tannin

Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

| Polyvinylpyrrolidone (9003-39-8) | |
|----------------------------------|------------------------------------|
| Bioaccumulative potential | No bioaccumulation data available. |

12.4. Mobility in soil

| Glycerin (56-81-5) | |
|--|--|
| Surface tension | 63.4 mN/m (20 °C, 1000 g/l) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil | Highly mobile in soil. |

12.5. Results of PBT and vPvB assessment

| Component | |
|----------------------------------|---|
| Glycerin (56-81-5) | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |
| Polyvinylpyrrolidone (9003-39-8) | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |

12.6. Other adverse effects

Ozone : Not classified (Based on available data, the classification criteria are not met)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|---|---------------|---------------|---------------|---------------|
| 14.1. UN number | | | | |
| Not regulated for transport | | | | |
| 14.2. UN proper shipping name | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| Transport document description | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.3. Transport hazard class(es) | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.4. Packing group | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| 14.5. Environmental hazards | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available | | | | |

Gliadin Extraction Additive for Dark Chocolate, Cocoa, and Tannin

Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. National regulations

UK REACH Annex XVII (Restriction List)

This product contains no substance(s) listed on UK REACH Annex XVII (Restriction List) equal to or above the level of SDS disclosure

UK REACH Annex XIV (Authorisation List)

This product contains no substance(s) listed on UK REACH Annex XIV (Authorisation List) equal to or above the 0.1% level of disclosure

UK REACH Candidate List (SVHC)

This product contains no substance(s) listed on the UK REACH Candidate List (SVHC) above the 0.1% level of disclosure

GB PIC regulation (Prior Informed Consent)

This product contains no substance(s) listed on the GB PIC List equal to or above the level of SDS disclosure

POP Regulation (Persistent Organic Pollutants)

This product contains no substance(s) listed on the GB POP List equal to or above the level of SDS disclosure

Ozone Regulation (S.I. No. 168 of 2015)

This product contains no substance(s) listed on the GB Ozone Depletion List equal to or above the level of SDS disclosure

Control of Poisons and Explosives Precursors Act

This product contains no substance(s) listed as a reportable poison on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This product contains no substance(s) listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This product contains no substance(s) listed as a reportable explosive precursor on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This substance is not listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations

Drug Precursors Regulation (EC 273/2004)

This product contains no substance(s) listed on the GB Drug Precursors List equal to or above the level of SDS disclosure

15.1.2. Other Information

15.2. Chemical safety assessment

No additional information available

Gliadin Extraction Additive for Dark Chocolate, Cocoa, and Tannin

Safety Data Sheet

According REACH Regulation 1907/2006 as retained in UK law by UK REACH SI 2019 No. 758 as amended

SECTION 16: Other information

No additional information available

Safety Data Sheet (SDS), UK

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.