

Safety data sheet

Page: 1/21

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 01.06.2026

Version: 19.0

Date / Previous version: 16.12.2025

Previous version: 18.0

Product: **GLYSANTIN® G48® blue-green**

(ID no. 30052793/SDS_GEN_GB/EN)

Date of print 31.07.2026

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

1.1. Product identifier

GLYSANTIN® G48® blue-green

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

Relevant identified uses: engine coolant

1.3. Details of the supplier of the safety data sheet

Company:

BASF SE
67056 Ludwigshafen
GERMANY

Contact address:

BASF plc
4th and 5th Floors, 2 Stockport Exchange
Railway Road, Stockport, SK1 3GG
UNITED KINGDOM

Telephone: +44 161 475 3000

E-mail address: product-safety-uk-and-ireland@basf.com

1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 01.06.2026

Version: 19.0

Date / Previous version: 16.12.2025

Previous version: 18.0

Product: **GLYSANTIN® G48® blue-green**

(ID no. 30052793/SDS_GEN_GB/EN)

Date of print 31.07.2026

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Acute Tox. 4 (oral)	H302 Harmful if swallowed.
Repr. 1B	H360F May damage fertility.
Repr. 1B	H360D May damage the unborn child.
STOT RE 2	H373 May cause damage to organs (Kidney) through prolonged or repeated exposure.

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Pictogram:



Signal Word:

Danger

Hazard Statement:

H302	Harmful if swallowed.
H360FD	May damage fertility. May damage the unborn child.
H373	May cause damage to organs (Kidney) through prolonged or repeated exposure.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P260	Do not breathe mist or vapour.
P201	Obtain special instructions before use.

Precautionary Statements (Response):

P308 + P313	IF exposed or concerned: Get medical advice/attention.
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Precautionary Statements (Storage):

P405	Store locked up.
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Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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Labeling of special preparations (GHS):

Restricted to professional users.

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

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Previous version: 18.0

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Hazard determining component(s) for labelling: disodium tetraborate pentahydrate, diethyl 2,4-dihydroxycyclodisiloxane-2,4-diylbis(trimethylene)diphosphonate, tetrasodium salt, reaction products with disodium metas ilicate, ethanediol, Sodium 2-ethylhexanoate

2.3. Other hazards

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

| Contains: ethanediol

inhibitors

Hazardous ingredients (GHS)

ethanediol

Content (W/W): >= 75 % - <= 100 %	Acute Tox. 4 (oral)
CAS Number: 107-21-1	STOT RE (Kidney) 2
EC-Number: 203-473-3	H302, H373
REACH registration number: 01-2119456816-28	
INDEX-Number: 603-027-00-1	

Disodium sebacate

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 01.06.2026

Version: 19.0

Date / Previous version: 16.12.2025

Previous version: 18.0

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(ID no. 30052793/SDS_GEN_GB/EN)

Date of print 31.07.2026

Content (W/W): $\geq 1\%$ - $< 3\%$	Eye Irrit. 2
CAS Number: 17265-14-4	H319
EC-Number: 241-300-3	
REACH registration number: 01-2120762063-61	

Sodium 2-ethylhexanoate

Content (W/W): $\geq 1\%$ - $< 3\%$	Repr. 1B (unborn child)
CAS Number: 19766-89-3	H360D
EC-Number: 243-283-8	
INDEX-Number: 607-230-00-6	

disodium tetraborate pentahydrate

Content (W/W): $\geq 0.3\%$ - $< 1\%$	Eye Irrit. 2
CAS Number: 12179-04-3	Repr. 1B (fertility)
EC-Number: 237-560-2, 215-540-4	Repr. 1B (unborn child)
REACH registration number: 01-2119490790-32	H319, H360FD
INDEX-Number: 005-011-00-4	

diethyl 2,4-dihydroxycyclodisiloxane-2,4-diylbis(trimethylene)diphosphonate, tetrasodium salt, reaction products with disodium metasilicate

Content (W/W): $\geq 0.1\%$ - $< 0.2\%$	Acute Tox. 4 (oral)
CAS Number: 148324-78-1	Skin Corr. 1B
EC-Number: 401-770-4	Eye Dam. 1
REACH registration number: 01-0000015160-85	H302, H314
INDEX-Number: 650-014-00-1	

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Immediately wash thoroughly with soap and water, seek medical attention.

On contact with eyes:

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 01.06.2026

Version: 19.0

Date / Previous version: 16.12.2025

Previous version: 18.0

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(ID no. 30052793/SDS_GEN_GB/EN)

Date of print 31.07.2026

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Administer 50 ml of pure ethanol in a drinkable concentration.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

Hazards: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. (Further) symptoms and / or effects are not known so far

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:
water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:

No applicable information available.

5.2. Special hazards arising from the substance or mixture

Endangering substances: harmful vapours

Advice: Generation of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Breathing protection required.

6.2. Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 01.06.2026

Version: 19.0

Date / Previous version: 16.12.2025

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Date of print 31.07.2026

6.3. Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Wear suitable coveralls to prevent exposure to the skin. Wear chemically resistant gloves in combination with specific activity training

| No eating, drinking, smoking or tobacco use at the place of work.

Protection against fire and explosion:

Take precautionary measures against static discharges.

Exposure estimate and reference to its source

| Provide extract ventilation to points where emissions occur (LEV).

7.2. Conditions for safe storage, including any incompatibilities

Unsuitable materials for containers: Galvanized carbon steel (Zinc), Paper/Fibreboard

| Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

107-21-1: ethanediol

Skin Designation (WEL/EH 40 (UK)), vapour

The substance can be absorbed through the skin.

Skin Designation (WEL/EH 40 (UK)), Particulate

The substance can be absorbed through the skin.

TWA value 10 mg/m³ (WEL/EH 40 (UK)), Particulate

TWA value 52 mg/m³ ; 20 ppm (WEL/EH 40 (UK)), vapour

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 01.06.2026

Version: 19.0

Date / Previous version: 16.12.2025

Previous version: 18.0

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(ID no. 30052793/SDS_GEN_GB/EN)

Date of print 31.07.2026

STEL value 104 mg/m³ ; 40 ppm (WEL/EH 40 (UK)), vapour
 Ceiling limit value/factor: 15 min
 TWA value 52 mg/m³ ; 20 ppm (OEL (EU))
 indicative
 STEL value 104 mg/m³ ; 40 ppm (OEL (EU))
 indicative
 Skin Designation (OEL (EU))
 The substance can be absorbed through the skin.

PNEC

No hazard identified.

DNEL

Data refer to the lead substances

Components with DNEL

107-21-1: ethanediol

worker: Long-term exposure - local effects, Inhalation: 35 mg/m³
 worker: Long-term exposure- systemic effects, dermal: 106 mg/kg
 consumer: Long-term exposure - local effects, Inhalation: 7 mg/m³
 consumer: Long-term exposure- systemic effects, dermal: 53 mg/kg

19766-89-3: Sodium 2-ethylhexanoate

worker: Long-term exposure- systemic effects, dermal: 2 mg/kg
 Developmental toxicity/teratogenicity
 worker: Long-term exposure- systemic effects, Inhalation: 14 mg/m³
 Developmental toxicity/teratogenicity
 consumer: Long-term exposure- systemic effects, dermal: 1 mg/kg
 Developmental toxicity/teratogenicity
 consumer: Long-term exposure- systemic effects, Inhalation: 3.5 mg/m³
 Developmental toxicity/teratogenicity
 consumer: Long-term exposure- systemic effects, oral: 1 mg/kg
 Developmental toxicity/teratogenicity

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Combination filter for gases/vapours of organic compounds and solid and liquid particles (f.e. EN 14387 Type A-P2)

Hand protection:

Wear chemically resistant gloves in combination with specific activity training

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

butyl rubber (butyl) - 0.7 mm coating thickness

nitrile rubber (NBR) - 0.4 mm coating thickness

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

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Date of print 31.07.2026

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

chemical-protection suit (f.e. according to EN 14605)

General safety and hygiene measures

No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form:	liquid	
Colour:	blue-green	
Odour:	of glycol	
Odour threshold:	not determined	
pH value:	7.1 - 7.3	
solidification temperature:	< -18 °C	(DIN ISO 3016)
Boiling point:	>= 165 °C	(ASTM D1120)
Flash point:	> 126.5 °C	(ISO 2719)
Evaporation rate:	not determined	
Flammability:	hardly combustible	(derived from flash point)
Lower explosion limit:	For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	> 440 °C	(DIN 51794)
Vapour pressure:	0.2 hPa (20 °C)	
Density:	1.122 g/cm ³ (20 °C)	(DIN 51757)
Relative vapour density (air):	> 1 (20 °C)	(estimated)
Solubility in water:	Heavier than air. miscible	

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Date / Revised: 01.06.2026

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Previous version: 18.0

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Date of print 31.07.2026

Solubility (qualitative) solvent(s): polar solvents
soluble

Partitioning coefficient n-octanol/water (log Kow):
not applicable for mixtures

Self ignition: not self-igniting

Thermal decomposition: No decomposition if correctly stored and handled.

Viscosity, kinematic: 20 - 30 mm²/s (DIN 51562)
(20 °C)

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

9.2. Other information

Self heating ability: It is not a substance capable of
spontaneous heating according to
UN transport regulations class 4.2.

Miscibility with water: miscible in all proportions

Hygroscopy: Non-hygroscopic

Grain size distribution: The substance / product is marketed or used in a non solid or
granular form.

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: No corrosive effect on metal.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated and under normal transport conditions.

Peroxides: The product does not contain peroxides. The product/the substance has
not a tendency towards the formation of peroxide.

10.3. Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

10.4. Conditions to avoid

Avoid open flames.

10.5. Incompatible materials

Substances to avoid:

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

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Version: 19.0

Date / Previous version: 16.12.2025

Previous version: 18.0

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Date of print 31.07.2026

| strong acids, oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products:

| No hazardous decomposition products known.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after single ingestion.

Experimental/calculated data:

| ATE (oral): 1,700 mg/kg

| ATE (dermal): > 5,000 mg/kg

Information on: ethanediol

Experimental/calculated data:

| ATE human (oral): approx. 1,600 mg/kg

Irritation

Assessment of irritating effects:

Not irritating to eyes and skin.

Respiratory/Skin sensitization

Assessment of sensitization:

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

Germ cell mutagenicity

Assessment of mutagenicity:

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

Carcinogenicity

Assessment of carcinogenicity:

Not classified, due to lack of data.

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Version: 19.0

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(ID no. 30052793/SDS_GEN_GB/EN)

Date of print 31.07.2026

Reproductive toxicity

Assessment of reproduction toxicity:
Causes impairment of fertility in laboratory animals.

Developmental toxicity

Assessment of teratogenicity:
The substance caused malformations/developmental toxicity in laboratory animals.

Information on: ethanediol

Assessment of teratogenicity:

Developmental toxicity was observed after oral ingestion of high doses in studies with rats and mice, but this effect was not seen in a study with rabbits. Mechanistic studies show that the rabbit is the relevant species for the classification for human health. As such, and since the substance is not a developmental toxicant in the rabbit, no classification is warranted.

Specific target organ toxicity (single exposure)

Assessment of STOT single:
Not classified, due to lack of data.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:
Repeated exposure may affect certain organs.

Information on: ethanediol

Assessment of repeated dose toxicity:

The substance may cause damage to the kidney after repeated ingestion. The substance may cause damage to the kidney after repeated skin contact with high doses.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

The product has not been tested. The statement has been derived from the properties of the individual components.

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 01.06.2026

Version: 19.0

Date / Previous version: 16.12.2025

Previous version: 18.0

Product: **GLYSANTIN® G48® blue-green**

(ID no. 30052793/SDS_GEN_GB/EN)

Date of print 31.07.2026

SECTION 12: Ecological Information

12.1. Toxicity

Information on: ethanediol

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Information on: Disodium sebacate

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Information on: Sodium 2-ethylhexanoate

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. Based on long-term (chronic) toxicity study data, the product is very likely not harmful to aquatic organisms. Depending on local conditions and existing concentrations, disturbances in the biodegradation process of activated sludge are possible.

The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Information on: disodium tetraborate pentahydrate

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. Based on long-term (chronic) toxicity study data, the product is very likely not harmful to aquatic organisms. Depending on local conditions and existing concentrations, disturbances in the biodegradation process of activated sludge are possible.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: diethyl 2,4-dihydroxycyclodisiloxane-2,4-diylbis(trimethylene)diphosphonate, tetrasodium salt, reaction products with disodium metas ilicate

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Information on: ethanediol

Toxicity to fish:

LC50 (96 h) 72,860 mg/l, Pimephales promelas (EPA 72-1, static)

Information on: Disodium sebacate

Toxicity to fish:

LC50 (96 h) > 18 mg/l, Scophthalmus maximus (Fish test acute, semistatic)

Limit concentration test only (LIMIT test). The product has not been tested. The statement has been derived from the properties of the individual components. The details of the toxic effect relate to the nominal concentration.

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 01.06.2026

Version: 19.0

Date / Previous version: 16.12.2025

Previous version: 18.0

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(ID no. 30052793/SDS_GEN_GB/EN)

Date of print 31.07.2026

Information on: Sodium 2-ethylhexanoate

Toxicity to fish:

LC50 (96 h) > 100 mg/l, *Oryzias latipes* (OECD Guideline 203)

Information on: disodium tetraborate pentahydrate

Toxicity to fish:

LC50 (96 h) > 100 mg/l, *Limanda limanda* (other, Flow through.)

LC50 (96 h) > 100 mg/l, *Pimephales promelas* (OPPTS 820.1075 (EPA-Guideline), static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: diethyl 2,4-dihydroxycyclodisiloxane-2,4-diylbis(trimethylene)diphosphonate, tetrasodium salt, reaction products with disodium metas ilicate

Toxicity to fish:

LC50 (96 h) 342 mg/l - neutral. >464 mg/l, *Danio rerio* (OECD Guideline 203, static)

Nominal values (confirmed by concentration control analytics) The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample. After neutralization, it is no longer toxic.

Information on: ethanediol

Aquatic invertebrates:

EC50 (48 h) > 100 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Information on: Disodium sebacate

Aquatic invertebrates:

LC50 (48 h) 18 mg/l, *Acartia tonsa* (ISO 14669, static)

The details of the toxic effect relate to the nominal concentration. The product has not been tested.

The statement has been derived from the properties of the individual components.

LC50 (10 d) 161 mg/kg, *Corophium volutator* (, static)

The product has not been tested. The statement has been derived from the properties of the individual components. The details of the toxic effect relate to the nominal concentration.

Information on: Sodium 2-ethylhexanoate

Aquatic invertebrates:

EC50 (48 h) 85.4 mg/l, *Daphnia magna* (Directive 79/831/EEC, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: disodium tetraborate pentahydrate

Aquatic invertebrates:

LC50 (96 h) > 100 mg/l, other (other, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: diethyl 2,4-dihydroxycyclodisiloxane-2,4-diylbis(trimethylene)diphosphonate, tetrasodium salt, reaction products with disodium metas ilicate

Aquatic invertebrates:

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 01.06.2026

Version: 19.0

Date / Previous version: 16.12.2025

Previous version: 18.0

Product: **GLYSANTIN® G48® blue-green**

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Date of print 31.07.2026

EC50 (48 h) 308 mg/l, Daphnia magna (DIN 38412 Part 11, static)

Nominal values (confirmed by concentration control analytics) The product will cause changes in the pH value of the test system. The result refers to an unneutralized sample.

Information on: ethanediol

Aquatic plants:

EC50 (96 h) 6,500 - 13,000 mg/l (growth rate), Pseudokirchneriella subcapitata (Algal growth inhibition test)

Information on: Disodium sebacate

Aquatic plants:

EC50 (72 h) 38.7 mg/l (growth rate), Skeletonema costatum (ISO/DIS 10253, static)

The details of the toxic effect relate to the nominal concentration. The product has not been tested.

The statement has been derived from the properties of the individual components.

No observed effect concentration (72 h) 3 mg/l (growth rate), Skeletonema costatum (ISO/DIS 10253, static)

The details of the toxic effect relate to the nominal concentration. The product has not been tested.

The statement has been derived from the properties of the individual components.

Information on: Sodium 2-ethylhexanoate

Aquatic plants:

EC50 (72 h) 500 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

No observed effect concentration (72 h) 130 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

Information on: disodium tetraborate pentahydrate

Aquatic plants:

EC50 (72 h) > 100 mg/l, Phaeodactylum tricornutum (ISO/DIS 10253, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: diethyl 2,4-dihydroxycyclodisiloxane-2,4-diylbis(trimethylene)diphosphonate, tetrasodium salt, reaction products with disodium metas ilicate

Aquatic plants:

EC50 (72 h) > 100 mg/l (growth rate), Desmodemus subspicatus (Directive 88/302/EEC, part C, p. 89, static)

Nominal values (confirmed by concentration control analytics)

EC10 (72 h) > 100 mg/l (growth rate), Desmodemus subspicatus (Directive 88/302/EEC, part C, p. 89, static)

Nominal values (confirmed by concentration control analytics)

Information on: ethanediol

Microorganisms/Effect on activated sludge:

EC20 (30 min) > 1,995 mg/l, activated sludge, domestic (DIN EN ISO 8192, aerobic)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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Date / Revised: 01.06.2026

Version: 19.0

Date / Previous version: 16.12.2025

Previous version: 18.0

Product: **GLYSANTIN® G48® blue-green**

(ID no. 30052793/SDS_GEN_GB/EN)

Date of print 31.07.2026

Information on: Disodium sebacate

Microorganisms/Effect on activated sludge:

EC20 (180 min) > 1,000 mg/l, (DIN EN ISO 8192, aerobic)

Nominal concentration. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Sodium 2-ethylhexanoate

Microorganisms/Effect on activated sludge:

EC10 (17 h) 71.7 mg/l, *Pseudomonas putida* (DIN 38412 Part 8, static)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: disodium tetraborate pentahydrate

Microorganisms/Effect on activated sludge:

No observed effect concentration (3 h) 17.5 mg/l, activated sludge (OECD Guideline 209)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: diethyl 2,4-dihydroxycyclodisiloxane-2,4-diylbis(trimethylene)diphosphonate, tetrasodium salt, reaction products with disodium metas ilicate

Microorganisms/Effect on activated sludge:

EC20 (30 min) > 1,000 mg/l, activated sludge, domestic (OECD Guideline 209, aerobic)

Nominal concentration.

Information on: ethanediol

Assessment of terrestrial toxicity:

Toxic effects have been observed in studies with terrestrial plants.

Information on: disodium tetraborate pentahydrate

Assessment of terrestrial toxicity:

Toxic effects have been observed in terrestrial studies.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

12.2. Persistence and degradability

Information on: ethanediol

Assessment biodegradation and elimination (H₂O):

Readily biodegradable (according to OECD criteria).

Information on: Disodium sebacate

Assessment biodegradation and elimination (H₂O):

Readily biodegradable (according to OECD criteria).

Information on: Sodium 2-ethylhexanoate

Assessment biodegradation and elimination (H₂O):

Readily biodegradable (according to OECD criteria).

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 01.06.2026

Version: 19.0

Date / Previous version: 16.12.2025

Previous version: 18.0

Product: **GLYSANTIN® G48® blue-green**

(ID no. 30052793/SDS_GEN_GB/EN)

Date of print 31.07.2026

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

*Information on: disodium tetraborate pentahydrate
Assessment biodegradation and elimination (H₂O):
Not applicable for inorganic substances.*

*Information on: diethyl 2,4-dihydroxycyclodisiloxane-2,4-diylbis(trimethylene)diphosphonate, tetrasodium salt, reaction products with disodium metas ilicate
Assessment biodegradation and elimination (H₂O):
Not readily biodegradable (by OECD criteria). Poorly biodegradable.*

12.3. Bioaccumulative potential

*Information on: ethanediol
Assessment bioaccumulation potential:
Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.*

*Information on: Sodium 2-ethylhexanoate
Assessment bioaccumulation potential:
Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.*

*Information on: Disodium sebacate
Assessment bioaccumulation potential:
Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.*

*Information on: disodium tetraborate, anhydrous
Assessment bioaccumulation potential:
Does not accumulate in organisms.*

*Information on: diethyl 2,4-dihydroxycyclodisiloxane-2,4-diylbis(trimethylene)diphosphonate, tetrasodium salt, reaction products with disodium metas ilicate
Assessment bioaccumulation potential:
Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.*

12.4. Mobility in soil

*Information on: ethanediol
Assessment transport between environmental compartments:
Volatility: The substance will not evaporate into the atmosphere from the water surface.
Adsorption in soil: Adsorption to solid soil phase is not expected.*

*Information on: Disodium sebacate
Assessment transport between environmental compartments:*

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 01.06.2026

Version: 19.0

Date / Previous version: 16.12.2025

Previous version: 18.0

Product: **GLYSANTIN® G48® blue-green**

(ID no. 30052793/SDS_GEN_GB/EN)

Date of print 31.07.2026

Volatility: No data available.

Adsorption in soil: Adsorption to solid soil phase is not expected.

Information on: Sodium 2-ethylhexanoate

Assessment transport between environmental compartments:

Volatility: The substance will not evaporate into the atmosphere from the water surface.

Adsorption in soil: Adsorption to solid soil phase is not expected. The product has not been tested.

The statement has been derived from substances/products of a similar structure or composition.

Information on: disodium tetraborate pentahydrate

Assessment transport between environmental compartments:

Volatility: The substance will not evaporate into the atmosphere from the water surface.

Adsorption in soil: Adsorption to solid soil phase is not expected.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

Waste key:

16 01 14□ antifreeze fluids containing hazardous substances

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 01.06.2026

Version: 19.0

Date / Previous version: 16.12.2025

Previous version: 18.0

Product: **GLYSANTIN® G48® blue-green**

(ID no. 30052793/SDS_GEN_GB/EN)

Date of print 31.07.2026

SECTION 14: Transport Information

Land transport

ADR

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

RID

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

Inland waterway transport

ADN

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

Transport in inland waterway vessel

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable

Sea transport

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Date / Revised: 01.06.2026

Version: 19.0

Date / Previous version: 16.12.2025

Previous version: 18.0

Product: **GLYSANTIN® G48® blue-green**

(ID no. 30052793/SDS_GEN_GB/EN)

Date of print 31.07.2026

IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Air transport

IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

14.1. UN number or ID number

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Maritime transport in bulk according to IMO instruments

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 01.06.2026

Version: 19.0

Date / Previous version: 16.12.2025

Previous version: 18.0

Product: **GLYSANTIN® G48® blue-green**

(ID no. 30052793/SDS_GEN_GB/EN)

Date of print 31.07.2026

Maritime transport in bulk is not intended.

SECTION 15: Regulatory Information

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

Prohibitions, Restrictions and Authorizations

UK REACH SI, Annex XVII, Marketing and Use Restrictions
Number on List: 30

UK REACH SI, Annex XVII, Marketing and Use Restrictions
Number on List: 3

|disodium tetraborate pentahydrate, Sodium 2-ethylhexanoate

2015 No. 483 The Control of Major Accident Hazards Regulation.:

Listed in above regulation: no

Classification applies for standard conditions of temperature and pressure.

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

Listed in above regulation: no

Classification applies for standard conditions of temperature and pressure.

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

15.2. Chemical Safety Assessment

Assessment of safe use has been performed for the mixture and the result is documented in section 7 and 8 of the SDS

SECTION 16: Other Information

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

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Date / Revised: 01.06.2026

Version: 19.0

Date / Previous version: 16.12.2025

Previous version: 18.0

Product: **GLYSANTIN® G48® blue-green**

(ID no. 30052793/SDS_GEN_GB/EN)

Date of print 31.07.2026

Acute Tox.	Acute toxicity
Repr.	Reproductive toxicity
STOT RE	Specific target organ toxicity — repeated exposure
Eye Irrit.	Eye irritation
Skin Corr.	Skin corrosion
Eye Dam.	Serious eye damage
H302	Harmful if swallowed.
H360FD	May damage fertility. May damage the unborn child.
H373	May cause damage to organs (Kidney) through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H360D	May damage the unborn child.
H314	Causes severe skin burns and eye damage.

Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PMT = Persistent, Mobile and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative. vPvM = very Persistent and very Mobile.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.