

# Safety data sheet

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

Date / Revised: 07.11.2023

Version: 5.0

Date previous version: 15.12.2022

Previous version: 4.0

Date / First version: 14.10.2016

Product: **GLYSANTIN® G64® ECO green BMB 100 also suitable for electric vehicles**

(ID no. 30786267/SDS\_GEN\_GB/EN)

Date of print 15.08.2024

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

### 1.1. Product identifier

## **GLYSANTIN® G64® ECO green BMB 100 also suitable for electric vehicles**

UFI: RE9U-PDJH-X00A-R5WJ

Biomass balanced product certified according to REDcert<sup>2</sup> scheme for the chemical industry, certificate number:

REDcert<sup>2</sup>-92935346515

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

Relevant identified uses: Ready-to-use engine coolants

### 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

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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

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## 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.

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

Acute Tox. 4 (oral)

H302 Harmful if swallowed.

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:

Warning

Hazard Statement:

H302

Harmful if swallowed.

H373

May cause damage to organs (Kidney) through prolonged or repeated exposure.

Precautionary Statements (Prevention):

P260

Do not breathe dust/gas/mist/vapours.

P270

Do not eat, drink or smoke when using this product.

Precautionary Statements (Response):

P314

Get medical advice/attention if you feel unwell.

P301 + P312

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330

Rinse mouth.

Precautionary Statements (Disposal):

P501

Dispose of contents and container to hazardous or special waste collection point.

Hazard determining component(s) for labelling: ethanediol

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## 2.3. Other hazards

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

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

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.

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Chemical nature

ethanediol, inhibitors

Hazardous ingredients (GHS)

ethanediol

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

potassium hydroxide

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Content (W/W):  $\geq 0.1\%$  -  $< 0.2\%$  Met. Corr. 1  
 CAS Number: 1310-58-3 Acute Tox. 4 (oral)  
 EC-Number: 215-181-3 Skin Corr./Irrit. 1A  
 REACH registration number: 01- Eye Dam./Irrit. 1  
 2119487136-33 H290, H302, H314  
 INDEX-Number: 019-002-00-8

Specific concentration limit:

Skin Corr./Irrit. 2:  $0.5\%$  -  $< 2\%$   
 Eye Dam./Irrit. 2:  $0.5\%$  -  $< 2\%$   
 Skin Corr./Irrit. 1A:  $\geq 5\%$   
 Skin Corr./Irrit. 1B:  $2\%$  -  $< 5\%$

Acetic acid, 2-(2-benzothiazolylthio)-, potassium salt (1:1)

Content (W/W):  $\geq 0.1\%$  -  $< 0.2\%$  Acute Tox. 4 (oral)  
 CAS Number: 2532-53-8 Repr. 2 (fertility)  
 Repr. 2 (unborn child)  
 Aquatic Chronic 3  
 H302, H361fd, H412

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

Immediately remove contaminated clothing.

If inhaled:

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

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

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

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

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

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## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing media

Suitable extinguishing media:  
water spray, dry powder, foam

### 5.2. Special hazards arising from the substance or mixture

Endangering substances: harmful vapours

Advice: Evolution 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.

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## 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.

### 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.

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## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

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

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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

The product in undamaged packing need not be stored separately.

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.

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## 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/m<sup>3</sup> (WEL/EH 40 (UK)), Particulate

TWA value 52 mg/m<sup>3</sup> ; 20 ppm (WEL/EH 40 (UK)), vapour

Skin Designation (OEL (EU))

The substance can be absorbed through the skin.

STEL value 104 mg/m<sup>3</sup> ; 40 ppm (OEL (EU))

indicative

TWA value 52 mg/m<sup>3</sup> ; 20 ppm (OEL (EU))

indicative

STEL value 104 mg/m<sup>3</sup> ; 40 ppm (WEL/EH 40 (UK)), vapour

Ceiling limit value/factor: 15 min

1310-58-3: potassium hydroxide

STEL value 2 mg/m<sup>3</sup> (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

PNEC

No hazard identified.

DNEL

Data refer to the lead substance

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### Components with DNEL

107-21-1: ethanediol

worker: Long-term exposure - local effects, Inhalation: 35 mg/m<sup>3</sup>

worker: Long-term exposure- systemic effects, dermal: 106 mg/kg

consumer: Long-term exposure - local effects, Inhalation: 7 mg/m<sup>3</sup>

consumer: Long-term exposure- systemic effects, dermal: 53 mg/kg

## **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:

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

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:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

### General safety and hygiene measures

Wearing of closed work clothing is required additionally to the stated personal protection equipment.

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

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## **SECTION 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

Form: liquid  
Colour: green  
Odour: of glycol

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Odour threshold:	not determined	
pH value:	8.5 (measured with the undiluted substance)	(ASTM D1287)
pour point:	< -15 °C	(DIN ISO 3016)
boiling temperature:	160 °C (1,013 hPa)	(ASTM D1120)
Flash point:	> 120 °C	(ISO 2592)
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:	> 200 °C	(DIN 51794)
Vapour pressure:	0.2 mbar (20 °C)	
Density:	1.1260 g/cm <sup>3</sup> (20 °C)	(DIN 51757)
Relative vapour density (air):	> 1 (20 °C) Heavier than air.	(estimated)
Solubility in water:	soluble	
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 used as directed.	
Viscosity, kinematic:	approx. 30 mm <sup>2</sup> /s (23 °C)	(DIN 51562)
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.
Hygroscopy:	Non-hygroscopic
Grain size distribution:	The substance / product is marketed or used in a non solid or granular form.
Other Information:	

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

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## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

Corrosion to metals: No corrosive effect on metal.

### 10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### 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:

strong oxidizing agents, strong bases, strong acids

### 10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products known.

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## SECTION 11: Toxicological Information

### 11.1. Information on toxicological effects

#### Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Of low toxicity after short-term skin contact.

Experimental/calculated data:

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

#### Irritation

Assessment of irritating effects:

Not irritating to eyes and skin.

#### Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies. Human data do not fully exclude a skin sensitizing potential.

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#### Germ cell mutagenicity

Assessment of mutagenicity:

Based on the ingredients, there is no suspicion of a mutagenic effect.

#### Carcinogenicity

Assessment of carcinogenicity:

The whole of the information assessable provides no indication of a carcinogenic effect.

#### Reproductive toxicity

Assessment of reproduction toxicity:

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

#### Developmental toxicity

Assessment of teratogenicity:

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

*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 ethylene glycol is not a developmental toxicant in the rabbit, no classification is warranted.*

#### Specific target organ toxicity (single exposure)

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

#### 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

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The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

## SECTION 12: Ecological Information

### 12.1. Toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

Microorganisms/Effect on activated sludge:

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

### 12.2. Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

The substance can be virtually eliminated from water in suitable effluent treatment plants by biodegradation, stripping and mechanical separation.

*Information on: 1,2-Ethanediol*

*Elimination information:*

*83 - 96 % (14 d) Readily biodegradable.*

*90 - 100 % (10 d) (OECD 301 A (new version)) (aerobic, activated sludge) Readily biodegradable (according to OECD criteria).*

*> 69 % (28 d) Biodegradable.*

*> 70 % (28 d) (OECD 301 A (new version)) Readily biodegradable (according to OECD criteria). Literature data.*

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### 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

No data available.

### 12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: No data available.

### 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

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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.

### 12.7. Additional information

Other ecotoxicological advice:

Do not release untreated into natural waters.

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

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## 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<sup>+</sup> 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.

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## 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

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Special precautions for user            None known

#### RID

UN number or ID number:            Not classified as a dangerous good under transport regulations  
 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

UN number or ID number:            Not classified as a dangerous good under transport regulations  
 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 evaluated

#### Sea transport

##### IMDG

UN number or ID number:            Not classified as a dangerous good under transport regulations  
 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

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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**

Maritime transport in bulk is not intended.

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## **SECTION 15: Regulatory Information**

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

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):  
Listed in above regulation: no

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

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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).

The product contains a substance (Schedule 1A) regulated under United Kingdom Poisons Act 1972. This may result in obligations for your company according to the statutory requirements of the aforementioned regulation and the respective national implementing regulations.

## 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

### Assessment of the hazard classes according to UN GHS criteria (most recent version)

Acute Tox. 4 (oral)  
STOT RE (Kidney) 2

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

Acute Tox.	Acute toxicity
STOT RE	Specific target organ toxicity — repeated exposure
Met. Corr.	Corrosive to metals
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Repr.	Reproductive toxicity
Aquatic Chronic	Hazardous to the aquatic environment - chronic
H302	Harmful if swallowed.
H373	May cause damage to organs (Kidney) through prolonged or repeated exposure.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H412	Harmful to aquatic life with long lasting effects.

### 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

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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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Product: **GLYSANTIN® G64® ECO green BMB 100 also suitable for electric vehicles**

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Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative 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.

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.

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