

# Safety data sheet

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BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 14.11.2022

Version: 9.0

Date previous version: 21.04.2022

Previous version: 8.0

Date / First version: 16.01.2003

Product: **GLYSANTIN® G05® yellow also suitable for electric vehicles**

(ID no. 30177333/SDS\_GEN\_EU/EN)

Date of print 12.01.2023

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

### 1.1. Product identifier

## **GLYSANTIN® G05® yellow also suitable for electric vehicles**

UFI: V20E-P128-P00W-JNR0

### 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

Fuel and Lubricant Solutions

Telephone: +49 621 60-42178

E-mail address: RegXcellenceFuelLubes@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 Regulation (EC) No 1272/2008 [CLP]

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 Regulation (EC) No 1272/2008 [CLP]

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 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.

Hazard determining component(s) for labelling: ethanediol, disodium tetraborate, anhydrous

### 2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

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

Regulatory relevant ingredients

ethanediol

Content (W/W): >= 75 % - <= 100 %	Acute Tox. 4 (oral) STOT RE (Kidney) 2 H302, H373
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CAS Number: 107-21-1

EC-Number: 203-473-3

REACH registration number: 01-2119456816-28

INDEX-Number: 603-027-00-1

Sodium benzoate

Content (W/W): >= 1 % - < 3 %	Eye Dam./Irrit. 2 H319
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CAS Number: 532-32-1

EC-Number: 208-534-8

REACH registration number: 01-2119460683-35

disodium tetraborate, anhydrous

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Content (W/W): $\geq 1\%$ - $< 3\%$	Eye Dam./Irrit. 2
CAS Number: 1330-43-4	Repr. 1B (fertility)
EC-Number: 215-540-4	Repr. 1B (unborn child)
REACH registration number: 01-2119490790-32	H319, H360FD
INDEX-Number: 005-011-00-4	

Included on the candidate list according to article 59 (1,10) of regulation EC No. 1907/2006 ('REACH').

sodium nitrite

Content (W/W): $\geq 0.3\%$ - $< 1\%$	Ox. Sol. 3
CAS Number: 7632-00-0	Acute Tox. 3 (oral)
EC-Number: 231-555-9	Eye Dam./Irrit. 2
REACH registration number: 01-2119471836-27	Aquatic Acute 1
	M-factor acute: 1
	H272, H319, H301, H400
	<u>Differing classification according to current knowledge and the criteria given in Annex I of Regulation (EC) No. 1272/2008</u>
	Ox. Sol. 2
	Acute Tox. 3 (oral)
	Eye Dam./Irrit. 2
	Aquatic Acute 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

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

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:

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

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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**

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.

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### 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

Ensure thorough ventilation of stores and work areas. Shut containers immediately after taking product because product takes up the humidity of air.

Protection against fire and explosion:

Take precautionary measures against static discharges.

#### Exposure estimate and reference to its source

Do not inhale vapours / aerosols.

### 7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Containers should be stored tightly sealed in a dry place. Storage in galvanized containers is not recommended.

### 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

#### PNEC

No hazard identified.

#### DNEL

Data refer to the lead substances

#### Components with DNEL

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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

7632-00-0: sodium nitrite

worker: Long- and short-term exposure - systemic effects, Inhalation: 2 mg/m<sup>3</sup>

## 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

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

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

State of matter: liquid  
Form: liquid  
Colour: yellow

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Odour:	product specific	
Odour threshold:	not determined	
solidification temperature:	approx. -15 °C	(DIN ISO 3016)
boiling temperature:	> 160 °C	(ASTM D1120)
Flammability:	hardly combustible	(derived from flash point)
Lower explosion limit:	3 %(V)	
	The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	15 %(V)	
Flash point:	117 °C	(ISO 2719)
Auto-ignition temperature:	445 °C	(DIN 51794)
Thermal decomposition:	No decomposition if correctly stored and handled.	
pH value:	6.0 - 7.0	
Viscosity, kinematic:	20 - 30 mm <sup>2</sup> /s (20 °C)	(DIN 51562)
Thixotropy:	not thixotropic	
Solubility in water:	miscible	
Solubility (qualitative) solvent(s):	polar solvents soluble	
Partitioning coefficient n-octanol/water (log Kow):	Study scientifically not justified.	
Vapour pressure:	0.3 hPa (20 °C)	
Density:	1.131 g/cm <sup>3</sup> (20 °C)	
Relative vapour density (air):> 1	(20 °C)	(estimated)
	Heavier than air.	

#### Particle characteristics

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

## 9.2. Other information

### Information with regard to physical hazard classes

#### Explosives

Explosion hazard: not explosive

#### Oxidizing properties

Fire promoting properties: not fire-propagating

### Other safety characteristics

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

Evaporation rate: not determined



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## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

The substance/product may react with secondary and tertiary amines to form nitrosamines.

### 10.4. Conditions to avoid

Avoid humidity. Avoid sources of ignition.

### 10.5. Incompatible materials

Substances to avoid:  
strong oxidizing agents

### 10.6. Hazardous decomposition products

Hazardous decomposition products:  
No hazardous decomposition products if stored and handled as prescribed/indicated.

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## SECTION 11: Toxicological Information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Assessment of acute toxicity:  
Of moderate toxicity after single ingestion.

*Information on: sodium nitrite*

*Experimental/calculated data:*  
*LD50 rat (oral): 180 mg/kg*

*Information on: ethanediol*

*Experimental/calculated data:*  
*LD (human) human (oral): approx. 1,600 mg/kg*

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### Irritation

Assessment of irritating effects:

Not irritating to the skin. May cause slight irritation to the eyes.

### 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.

### 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:

Contains a component that causes reproductive toxicity in test animals.

*Information on: disodium tetraborate, anhydrous*

*Assessment of reproduction toxicity:*

*Causes impairment of fertility in laboratory animals.*

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### Developmental toxicity

Assessment of teratogenicity:

Contains a component that causes teratogenicity in test animals.

*Information on: disodium tetraborate, anhydrous*

*Assessment of teratogenicity:*

*The substance caused malformations/developmental toxicity in laboratory animals.*

*Information on: ethanediol*

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*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.*

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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.*

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Aspiration hazard

No aspiration hazard expected.

Interactive effects

No data available.

## 11.2. Information on other hazards

Endocrine disrupting properties

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.

Other information

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Other relevant toxicity information

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

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## SECTION 12: Ecological Information

### 12.1. Toxicity

Assessment of aquatic toxicity:

Acutely harmful for 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

Elimination information:

> 70 % DOC reduction (28 d) (OECD 301 A (new version)) Readily biodegradable.

### 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

Significant accumulation in organisms is not to be expected.

### 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 fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

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## 12.6. Endocrine disrupting properties

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## 12.7. Other adverse effects

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

## 12.8. Additional information

Adsorbable organically-bound halogen (AOX):  
This product contains no organically-bound halogen.

Other ecotoxicological advice:  
The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

Do not release untreated into natural waters.

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## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

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

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.

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## SECTION 14: Transport Information

### Land transport

ADR

UN number or ID number: Not classified as a dangerous good under transport regulations  
UN proper shipping name: Not applicable

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Transport hazard class(es): Not applicable  
 Packing group: Not applicable  
 Environmental hazards: Not applicable  
 Special precautions for user: None known

**RID**

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

Not classified as a dangerous good under transport regulations

**Inland waterway transport****ADN**

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

Not classified as a dangerous good under transport regulations

**Transport in inland waterway vessel**

Not evaluated

**Sea transport****IMDG**

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

Not classified as a dangerous good under transport regulations

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## **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**

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**

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3

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

## 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)

Repr. 1B (fertility)

Repr. 1B (unborn child)

STOT RE (Kidney) 2

Aquatic Acute 3

Acute Tox.

Acute toxicity

Repr.

Reproductive toxicity

STOT RE

Specific target organ toxicity — repeated exposure

Eye Dam./Irrit.

Serious eye damage/eye irritation

Ox. Sol.

Oxidising solids

Aquatic Acute

Hazardous to the aquatic environment - acute

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.

H272

May intensify fire; oxidizer.

H301

Toxic if swallowed.

H400

Very toxic to aquatic life.

### 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. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The



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BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

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Product: **GLYSANTIN® G05® yellow also suitable for electric vehicles**

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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.

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