



To Our Customers:

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All statements, technical information, and recommendations contained therein are solely that of the manufacturer of the product. We at Zep Inc. did not verify the accuracy and completeness of the statements and do not warrant or guarantee the information. We provide vendor SDSs in accordance with the requirements of the OSHA Hazard Communication Standard in order to assist our customers in their compliance efforts. We made every effort to deliver all of the information prepared by the manufacturer. We cannot anticipate all conditions under which this information will be used. If you have any questions about the statements on the SDS, please contact the company shown on the document.

Zep Inc. assumes no liability or responsibility for loss or damage resulting from the improper use or handling of this product, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the manufacturer's product label and Safety Data Sheet.

Sincerely,

Compliance Services

Zep Inc.



We create chemistry

## Safety Data Sheet

### GLYSANTIN® NA40™ pk MB US also suitable for electric vehicles

Revision date : 2024/04/05  
Version: 6.3

Page: 1/11  
(30770390/SDS\_GEN\_US/EN)

#### 1. Identification

##### Product identifier used on the label

**GLYSANTIN® NA40™ pk MB US also suitable for electric vehicles**

##### Recommended use of the chemical and restriction on use

Recommended use\*: engine coolant  
Unsuitable for use: None known

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

##### Details of the supplier of the safety data sheet

Company:  
BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA  
Fuel and Lubricant Solutions

E-mail address: RegXcellenceFuelLubes@basf.com

##### Emergency telephone number

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

##### Other means of identification

Chemical family: inhibitors

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#### 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

##### Classification of the product

Acute Tox.

4 (oral)

Acute toxicity

# Safety Data Sheet

## GLYSANTIN® NA40™ pk MB US also suitable for electric vehicles

Revision date: 2024/04/05  
Version: 6.3

Page: 2/11  
(30770390/SDS\_GEN\_US/EN)

Repr.  
STOT RE

2 (unborn child)  
2

Reproductive toxicity  
Specific target organ toxicity — repeated exposure

### Label elements

Pictogram:



Signal Word:  
Warning

Hazard Statement:

H302	Harmful if swallowed.
H361	Suspected of damaging 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.
P202	Do not handle until all safety precautions have been read and understood.
P270	Do not eat, drink or smoke when using this product.
P264	Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P308 + P313	IF exposed or concerned: Get medical attention.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.

Precautionary Statements (Storage):

P405	Store locked up.
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Precautionary Statements (Disposal):

P501	Dispose of contents/container in accordance with local regulations.
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### Hazards not otherwise classified

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.

## 3. Composition / Information on Ingredients

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

ethylene glycol

# Safety Data Sheet

## GLYSANTIN® NA40™ pk MB US also suitable for electric vehicles

Revision date: 2024/04/05  
Version: 6.3

Page: 3/11  
(30770390/SDS\_GEN\_US/EN)

CAS Number: 107-21-1  
Content (W/W):  $\geq 75.0$  -  $\leq 100.0\%$   
Synonym: 1,2-Ethanediol; Ethylene glycol

Decanedioic acid, disodium salt  
CAS Number: 17265-14-4  
Content (W/W):  $\geq 3.0$  -  $< 5.0\%$   
Synonym: Decanedioic acid disodium salt

1H-Benzotriazole, 4(or 5)-methyl-, sodium salt  
CAS Number: 64665-57-2  
Content (W/W):  $\geq 0.1$  -  $< 0.2\%$   
Synonym: No data available.

### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

Remove contaminated clothing.

##### If inhaled:

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

##### If on skin:

Remove contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. If irritation develops, seek medical attention.

##### If in eyes:

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

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Seek medical attention.

##### If swallowed:

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

#### 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

*Information on: ethylene glycol*

*Symptoms: Overexposure may cause: corneal injury, severe pain, skin irritation, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*

Hazards: No applicable information available.

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

# Safety Data Sheet

## GLYSANTIN® NA40™ pk MB US also suitable for electric vehicles

Revision date: 2024/04/05  
Version: 6.3

Page: 4/11  
(30770390/SDS\_GEN\_US/EN)

### Note to physician

Treatment:

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

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:  
water spray, dry powder, foam

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

### Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### 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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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Breathing protection required.

### Environmental precautions

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

### Methods and material for containment and cleaning up

For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder).

Dispose of absorbed material in accordance with regulations.

For large amounts: Pump off product.

Place absorbed material in the same container as the spilled substance/product for disposal.

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## 7. Handling and Storage

### Precautions for safe handling

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

Protection against fire and explosion:

Take precautionary measures against static discharges.

# Safety Data Sheet

## GLYSANTIN® NA40™ pk MB US also suitable for electric vehicles

Revision date: 2024/04/05  
Version: 6.3

Page: 5/11  
(30770390/SDS\_GEN\_US/EN)

### 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.

## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

ethylene glycol	ACGIH, US:	TWA value 25 ppm Vapor fraction ;
	ACGIH, US:	STEL value 50 ppm Vapor fraction ;
	ACGIH, US:	STEL value 10 mg/m3 Inhalable fraction, Aerosole ;

### Advice on system design:

No applicable information available.

### Personal protective equipment

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Respiratory protection in case of vapour/aerosol release.

#### Hand protection:

Wear chemically impervious protective gloves.

#### Eye protection:

Safety glasses with side-shields.

#### 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:

Wear protective clothing as necessary to minimize contact. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

Form:	liquid	
Odour:	of glycol	
Odour threshold:	not determined	
Colour:	pink	
pH value:	approx. 8 (measured with the undiluted substance)	(ASTM D1287)
Melting point:	< -18 °C	(DIN ISO 3016)
Freezing point:	No applicable information available.	
Boiling point:	> 160 °C ( 1,013 hPa)	(ASTM D1120)

# Safety Data Sheet

## GLYSANTIN® NA40™ pk MB US also suitable for electric vehicles

Revision date: 2024/04/05  
Version: 6.3

Page: 6/11  
(30770390/SDS\_GEN\_US/EN)

Sublimation point:	No applicable information available.	
Flash point:	> 124 °C	(ISO 2719)
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.	
Autoignition:	420 °C	(DIN 51794)
Vapour pressure:	0.2 hPa ( 20 °C)	
Density:	1.122 - 1.125 g/cm3 ( 20 °C)	(DIN 51757)
Relative density:	No applicable information available.	
Vapour density:	> 1 ( 20 °C) Heavier than air.	(estimated)
Partitioning coefficient n-octanol/water (log Pow):	Study scientifically not justified.	
Self-ignition temperature:	not self-igniting	
Thermal decomposition:	No decomposition if correctly stored and handled.	
Viscosity, dynamic:	No applicable information available.	
Viscosity, kinematic:	20 - 30 mm2/s ( 20 °C)	(DIN 51562)
Particle size:	The substance / product is marketed or used in a non solid or granular form.	
% volatiles:	0.1 % The VOC content is calculated based on the product composition., The measurement did not take place.	
Solubility in water:	readily soluble	
Solubility (quantitative):	No applicable information available.	
Solubility (qualitative):	soluble solvent(s): polar solvents,	
Molar mass:	No applicable information available.	
Evaporation rate:	not determined	
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

## 10. Stability and Reactivity

### Reactivity

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

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

not fire-propagating

### Chemical stability

# Safety Data Sheet

## GLYSANTIN® NA40™ pk MB US also suitable for electric vehicles

Revision date: 2024/04/05  
Version: 6.3

Page: 7/11  
(30770390/SDS\_GEN\_US/EN)

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

### Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.  
The product is chemically stable.

### Conditions to avoid

Avoid open flames.

### Incompatible materials

strong oxidizing agents

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products known.

Thermal decomposition:

No decomposition if correctly stored and handled.

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## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

#### Acute toxicity

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

#### Oral

Type of value: LD (human)

Value: approx. 1,600 mg/kg

#### Inhalation

No applicable information available.

#### Dermal

No applicable information available.

#### Assessment other acute effects

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

#### Irritation / corrosion

Assessment of irritating effects: Not irritating to eyes and skin.

#### Sensitization



# Safety Data Sheet

## GLYSANTIN® NA40™ pk MB US also suitable for electric vehicles

Revision date: 2024/04/05  
Version: 6.3

Page: 8/11  
(30770390/SDS\_GEN\_US/EN)

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

### Aspiration Hazard

No aspiration hazard expected.

## Chronic Toxicity/Effects

### Repeated dose toxicity

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

#### *Information on: ethylene glycol*

*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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### Genetic toxicity

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.

None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.

### Reproductive toxicity

Assessment of reproduction toxicity: Based on available data, the classification criteria are not met.

### Teratogenicity

Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

#### *Information on: ethylene glycol*

*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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#### *Information on: 1H-Benzotriazole, 4(or 5)-methyl-, sodium salt*

*Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

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### Other Information

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

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## 12. Ecological Information

# Safety Data Sheet

## GLYSANTIN® NA40™ pk MB US also suitable for electric vehicles

Revision date: 2024/04/05  
Version: 6.3

Page: 9/11  
(30770390/SDS\_GEN\_US/EN)

### Toxicity

Aquatic 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

#### Toxicity to microorganisms

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

### Persistence and degradability

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

Study scientifically not justified.

### Bioaccumulative potential

#### Assessment bioaccumulation potential

Study scientifically not justified.

### Mobility in soil

#### Assessment transport between environmental compartments

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

### Additional information

Other ecotoxicological advice:

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

Do not release untreated into natural waters.

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## 13. Disposal considerations

### **Waste disposal of substance:**

Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

### **Container disposal:**

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

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## 14. Transport Information

### **Land transport**

USDOT

Not classified as a dangerous good under transport regulations

# Safety Data Sheet

## GLYSANTIN® NA40™ pk MB US also suitable for electric vehicles

Revision date: 2024/04/05  
Version: 6.3

Page: 10/11  
(30770390/SDS\_GEN\_US/EN)

### Sea transport IMDG

Not classified as a dangerous good under transport regulations

### Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

### Further information

DOT: This product is regulated if the amount in a single receptacle exceeds the Reportable Quantity (RQ). Please refer to Section 15 of this SDS for the RQ for this product. Bulk Shipments: RQ, UN3082 Environmentally Hazardous Substance, Liquid NOS (Ethyleneglycol), 9, PG III

## 15. Regulatory Information

VOC content:

The VOC content is calculated based on the product composition., The measurement did not take place.

### Federal Regulations

#### Registration status:

Chemical TSCA, US released; restriction on use / listed

This product contains a substance subject to a Significant New Use Rule (SNUR) or consent order restriction.  
40 CFR 721.11080

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

#### EPCRA 313:

<u>CAS Number</u>	<u>Chemical name</u>
107-21-1	ethylene glycol

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
5000 LBS	107-21-1	ethylene glycol

### State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
PA	107-21-1	ethylene glycol
NJ	107-21-1	ethylene glycol

### Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

**WARNING:** This product can expose you to chemicals including D&C RED NO. 19, which is known to the State of California to cause cancer, and ETHYLENE GLYCOL (INGESTED), which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### NFPA Hazard codes:

# Safety Data Sheet

## GLYSANTIN® NA40™ pk MB US also suitable for electric vehicles

Revision date: 2024/04/05  
Version: 6.3

Page: 11/11  
(30770390/SDS\_GEN\_US/EN)

Health: 1      Fire: 1      Reactivity: 0      Special:

### HMIS III rating

Health: 1 $\alpha$       Flammability: 1      Physical hazard: 0

## 16. Other Information

### SDS Prepared by:

BASF NA Product Regulations  
SDS Prepared on: 2024/04/05

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