

# Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 24.10.2019

Version: 6.2

Date previous version: 13.06.2019

Previous version: 6.1

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

(ID no. 30052793/SDS\_GEN\_EU/EN)

Date of print 22.01.2020

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## 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

Fuel and Lubricant Solutions

Telephone: +49 621 60-51555

E-mail address: product-safety-auto-refinery@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.

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

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

H302, H373

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

## 2.2. Label elements

Globally Harmonized System, EU (GHS)

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/container to hazardous or special waste collection point. |
|------|-------------------------------------------------------------------------------|

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

Hazard determining component(s) for labelling: ethanediol

## 2.3. Other hazards

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

No specific dangers known, if the regulations/notes for storage and handling are considered. The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

#### Chemical nature

ethanediol

inhibitors

This product contains (a) substance(s) included on the candidate list according to article 59 (1,10) of regulation EC No. 1907/2006 ('REACH') in a concentration equal or above 0.1% w/w: disodium tetraborate, anhydrous

#### Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

ethanediol

Content (W/W): > 90 %

CAS Number: 107-21-1

EC-Number: 203-473-3

REACH registration number: 01-

2119456816-28

INDEX-Number: 603-027-00-1

Acute Tox. 4 (oral)

STOT RE (Kidney) 2

H302, H373

2-ethylhexanoic acid, sodium salt

Content (W/W): > 2 % - < 3 %

CAS Number: 19766-89-3

EC-Number: 243-283-8

Repr. 2 (unborn child)

H361d

Disodium sebacate

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

disodium tetraborate, anhydrous

|                                             |                                      |
|---------------------------------------------|--------------------------------------|
| Content (W/W): $\geq 0.3\%$ - $\leq 1\%$    | 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                  | <u>Specific concentration limit:</u> |
|                                             | Repr. 1B, fertility: $\geq 4.5\%$    |
|                                             | Repr. 1B, unborn child: $\geq 4.5\%$ |

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.

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## 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: 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: Symptomatic treatment (decontamination, vital functions).

Antidote: Administer ethanol.

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## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing media

Suitable extinguishing media:

water spray, dry powder, alcohol-resistant foam, carbon dioxide

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

harmful vapours

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

High risk of slipping due to leakage/spillage of product.

### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

### 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

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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:

No special precautions necessary.

### 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.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

#### Components with occupational exposure limits

107-21-1: ethanediol

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

149-57-5: 2-ethylhexanoic acid

1310-73-2: sodium hydroxide

1330-43-4: disodium tetraborate, anhydrous

#### PNEC

No hazard identified.

#### DNEL

Data refer to the lead substance

#### 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

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### Personal protective equipment

#### Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: 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 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

nitrile rubber (NBR) - 0.4 mm coating thickness

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

Do not inhale gases/vapours/aerosols. Handle in accordance with good industrial hygiene and safety practice. 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.

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

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

|                             |                                                                                                                               |                            |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Form:                       | liquid                                                                                                                        |                            |
| Colour:                     | blue-green                                                                                                                    |                            |
| Odour:                      | product specific                                                                                                              |                            |
| 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                                                                                                                    | (DIN EN 22719; 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. |                            |

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|                                                     |                                                                                                                            |             |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------|
| Upper explosion limit:                              | For liquids not relevant for classification and labelling.                                                                 |             |
| Ignition temperature:                               | > 440 °C                                                                                                                   | (DIN 51794) |
| Vapour pressure:                                    | 0.2 hPa<br>(20 °C)                                                                                                         |             |
| Density:                                            | 1.122 g/cm <sup>3</sup><br>(20 °C)                                                                                         | (DIN 51757) |
| Solubility in water:                                | soluble, The product has not been tested. The statement has been derived from the properties of the individual components. |             |
| Solubility (qualitative) solvent(s):                | polar solvents<br>soluble                                                                                                  |             |
| Partitioning coefficient n-octanol/water (log Kow): | Study scientifically not justified.                                                                                        |             |
| Self ignition:                                      | not self-igniting                                                                                                          |             |
| Thermal decomposition:                              | No decomposition if correctly stored and handled.                                                                          |             |
| Viscosity, kinematic:                               | 20 - 30 mm <sup>2</sup> /s<br>(20 °C)                                                                                      | (DIN 51562) |
| Explosion hazard:                                   | not explosive                                                                                                              |             |
| Fire promoting properties:                          | not fire-propagating                                                                                                       |             |

## 9.2. Other information

|                                                                                                   |                             |
|---------------------------------------------------------------------------------------------------|-----------------------------|
| Miscibility with water:                                                                           | miscible in all proportions |
| Hygroscopy:                                                                                       | hygroscopic                 |
| 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.

### 10.3. Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

### 10.4. Conditions to avoid

No conditions to avoid anticipated.



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## 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 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

LD50 rabbit (dermal): > 2,000 mg/kg  
Literature data.

### Irritation

Experimental/calculated data:  
Skin corrosion/irritation rabbit: non-irritant

Serious eye damage/irritation rabbit: non-irritant

### 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.

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#### Reproductive toxicity

No data available.

#### Developmental toxicity

*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)

No data available.

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

*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.

#### Other relevant toxicity 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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## **SECTION 12: Ecological Information**

### **12.1. Toxicity**

Toxicity to fish:

LC50 (96 h) > 100 mg/l, *Leuciscus idus*

Aquatic invertebrates:

EC50 (48 h) > 100 mg/l, *Daphnia magna*

Aquatic plants:

EC50 (72 h) > 100 mg/l, algae

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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

Bioaccumulation potential:

Accumulation in organisms is not to be expected.

## 12.4. Mobility in soil

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.

## 12.7. Additional information

Other ecotoxicological advice:

Do not release untreated into natural waters.

The product has not been tested. The statements on ecotoxicology have 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.

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The waste codes are manufacturer's recommendations based on the designated use of the product. Other use and special waste disposal treatment on customer's location may require different waste-code assignments.

Waste key:

16 01 14<sup>□</sup> antifreeze fluids containing hazardous substances

Contaminated packaging:

Untampered 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:                   | 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:                   | 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:                    | 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                                                     |

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#### Transport in inland waterway vessel

|                             |                                                                |
|-----------------------------|----------------------------------------------------------------|
|                             | Not classified as a dangerous good under transport regulations |
| UN 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

##### IMDG

|                              |                                                                |
|------------------------------|----------------------------------------------------------------|
|                              | Not classified as a dangerous good under transport regulations |
| UN 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:                   | 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**

See corresponding entries for "UN 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)**

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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. Transport in bulk according to Annex II of MARPOL and the IBC Code**

|                     |               |
|---------------------|---------------|
| Regulation:         | Not evaluated |
| Shipment approved:  | Not evaluated |
| Pollution name:     | Not evaluated |
| Pollution category: | Not evaluated |
| Ship Type:          | Not evaluated |

**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, 30

**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 |

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|                 |                                                                             |
|-----------------|-----------------------------------------------------------------------------|
| Repr.           | Reproductive toxicity                                                       |
| Eye Dam./Irrit. | Serious eye damage/eye irritation                                           |
| H302            | Harmful if swallowed.                                                       |
| H373            | May cause damage to organs (Kidney) through prolonged or repeated exposure. |
| H361d           | Suspected of damaging the unborn child.                                     |
| H319            | Causes serious eye irritation.                                              |
| H360FD          | May damage fertility. May damage the unborn child.                          |

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 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.