

# Safety data sheet

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BASF Safety data sheet according to 91/155/EEC

Date / Revised: 04.11.2003

Product: **Glysocorr\* G 93-94**

Version: 1.0

(30068119/SDS\_GEN\_EU/EN)

Date of print 29.06.2005

## 1. Substance/preparation and company identification

### **Glysocorr\* G 93-94**

Use: Inhibitor concentrate for the automobile industry

Company:

BASF Aktiengesellschaft  
Performance Chemicals for Automotive and Oil Industry  
67056 Ludwigshafen, Germany  
Telephone: 0621-60-93571  
Telefax number: 0621-60-21324  
E-mail address: andreas.guldner@basf-ag.de

Emergency information:

Fire brigade BASF Ludwigshafen  
Telephone: +49-621-60-43333  
Telefax number: +49-621-60-92664

## 2. Composition/information on ingredients

Chemical nature

Preparation based on:

ethyleneglycol

inhibitors

Hazardous ingredients

ethyleneglycol

Content (W/W):  $\geq 25\%$  -  $\leq 35\%$ 

CAS Number: 107-21-1

EG-Number: 203-473-3

INDEX-Number: 603-027-00-1

Hazard symbol(s): Xn

R-phras(e)s: 22

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potassium 2-ethylhexanoate

Content (W/W):  $\geq 10\%$  -  $\leq 15\%$

CAS Number: 3164-85-0

EG-Number: 221-625-7

Hazard symbol(s): Xn

R-phrase(s): 63

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

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### 3. Hazard identification

Harmful if swallowed.

Possible risk of harm to the unborn child.

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### 4. First-aid measures

General advice:

Immediately remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and 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:

Rinse mouth immediately and then drink plenty of water, seek medical attention.

Note to physician:

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

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### 5. Fire-fighting measures

Suitable extinguishing media:

water, dry extinguishing media, foam, carbon dioxide

Specific hazards:

harmful vapours

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

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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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## 6. Accidental release measures

Personal precautions:  
Use personal protective clothing.

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

Methods for cleaning up or taking up:  
For large amounts: Pump off product.  
For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

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## 7. Handling and storage

### Handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion:  
Take precautionary measures against static discharges.

### Storage

Further information on storage conditions: Keep container tightly closed. Keep in a cool place.  
Storage in galvanized containers is not recommended.

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## 8. Exposure controls and personal protection

### Components with workplace control parameters

107-21-1: ethyleneglycol

### Personal protective equipment

Respiratory protection:  
Suitable respiratory protection for higher concentrations or long-term effect: Gas filter EN141 Type A for gases/vapours of organic compounds (boiling point >65 °C).

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**Hand protection:**

Chemical resistant protective gloves (EN 374)

Suitable materials short-term contact and/or splashes (recommended: At least protective index 2, corresponding &gt; 30 minutes of permeation time according to EN 374)

butyl rubber (butyl) - 0.7 mm coating thickness

Supplementary note: The specifications are based on own 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 in accordance with EN 374. Manufacturer's directions for use should be observed because of great diversity of types.

**Eye protection:**

Safety glasses with side-shields (frame goggles) (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 DIN-EN 465).

**General safety and hygiene measures:**

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

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**9. Physical and chemical properties**

Form:	liquid	
Odour:	product specific	
pH value:	9,5 (20 °C)	(ASTM D1287)
solidification temperature:	< -25 °C	(DIN/ISO 3016)
boiling temperature:	> 100 °C	(ASTM D1120)
Flash point:	> 100 °C	(DIN/ISO 2592)
Ignition temperature:	> 200 °C	(DIN 51794)
Vapour pressure:	18 mbar (20 °C) 95 mbar (50 °C)	
Density:	1,09 g/cm <sup>3</sup> (20 °C)	
Solubility in water:	soluble	
Viscosity, kinematic:	10 mm <sup>2</sup> /s (20 °C)	(DIN 51562)

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## 10. Stability and reactivity

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.

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

## 11. Toxicological information

LD50/oral/rat: > 2.000 mg/kg

Primary skin irritation/rabbit: non-irritant (OECD Guideline 404)

Primary irritations of the mucous membrane/rabbit: non-irritant (OECD Guideline 405)

Further information:

*Information on: ethylene glycol*

*Experiences in humans:*

*mean lethal dose: 1,2 - 1,5 g/kg , oral, Adults*

*consciousness is affected, kidney damage, Damage to the central nervous system:  
The symptoms/diagnosis/findings mentioned may result with smaller doses.*

Additional information:

There is no reason to fear a risk of damage to the developing embryo or fetus when the MAK value is adhered to.

The statements are based on the properties of the the individual components.

## 12. Ecological information

### Ecotoxicity

Toxicity to fish:

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

Microorganisms/Effect on activated sludge:

Pseudomonas putida/EC10: > 100 mg/l

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

### Persistence and degradability

Elimination information

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Test method: OECD 302B; ISO 9888; 88/302/EEC,part C  
Method of analysis: DOC reduction  
Degree of elimination: > 70 %  
Evaluation: Readily eliminated from water.

### Other adverse effects

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

### Additional information

Other ecotoxicological advice:  
Do not release untreated into natural waters.

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## 13. Disposal considerations

Must be dumped or incinerated in accordance with local regulations.

Contaminated packaging:  
Uncontaminated packs can be re-used.  
Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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## 14. Transport information

Not classified as hazardous under transport regulations (ADR RID ADNR IMDG/GGVSee ICAO/IATA)

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## 15. Regulatory information

### Regulations of the European union (Labelling) / National legislation/Regulations

Directive 1999/45/EEC ('Preparation Directive'):

Hazard symbol(s)  
Xn Harmful.

R-phrase(s)  
R22 Harmful if swallowed.  
R63 Possible risk of harm to the unborn child.

S-phrase(s)

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S2	Keep out of reach of children.
S36/37	Wear suitable protective clothing and gloves.
S46	If swallowed, seek medical advice immediately and show this container or label.

Hazard determinant component(s) for labelling: 1,2-ETHANEDIOL, 2-ethylhexanoic acid

### Other regulations

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## 16. Other information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 2:

Xn	Harmful.
22	Harmful if swallowed.
63	Possible risk of harm to the unborn child.

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

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.