

### Ferdinand Bilstein GmbH + Co. KG

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Version 7.0. Supersedes version: 6.0

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

### 1.1 Product identifier

antifreeze G12++ (-35°C Ready Mix) Article number: 172018, 172019, 172020 UFI: Q91P-VXE5-G40R-8M5M

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

1.2.1 Relevant uses

Anti-freezing agents

1.2.2 Uses advised against

For all uses not specified in SECTION 1.2.1

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

Company Ferdinand Bilstein GmbH + Co. KG

Wilhelmstr. 47

58256 Ennepetal / GERMANY Phone +49 2333 911-0 Fax +49 2333 911-444 Homepage www.febi.com E-mail info@febi.com

Address enquiries to

Technical information info@febi.com
Safety Data Sheet info@febi.com

1.4 Emergency telephone number

**Advisory body** +49 (0)89-19240 (24h) (English)

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Acute Tox. 4: H302 Harmful if swallowed.

STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure if

swallowed. (kidneys)

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms



Signal word WARNING

Contains: Ethylene glycol

Hazard statements H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P260 Do not breathe vapours.

P270 Do no eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: Call a POISON CENTER / doctor if you feel unwell. P501 Dispose of contents / container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of

disposal.





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#### 2.3 Other hazards

Human health dangers It is essential for pregnant women to avoid inhaling the product and not to let it come in

contact with the skin.

**Environmental hazards** Does not contain any PBT or vPvB substances.

Other hazards Contains no ingredients with endocrine-disrupting properties.

Further hazards were not determined with the current level of knowledge.

### **SECTION 3: Composition / Information on ingredients**

### 3.1 Substances

not applicable

### 3.2 Mixtures

## The product is a mixture.

Range [%]	Substance
45- 50	Ethylene glycol
	CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1, Reg-No.: 01-2119456816-28-XXXX
	GHS/CLP: Acute Tox. 4: H302 - STOT RE 2: H373
1 - < 3	3,5,5-Trimethylhexanoic acid
	CAS: 3302-10-1, EINECS/ELINCS: 221-975-0
	GHS/CLP: Acute Tox. 4: H302 - Eye Irrit. 2: H319
0,1 - <1	Methyl-1H-benzotriazole
	CAS: 29385-43-1, EINECS/ELINCS: 249-596-6, Reg-No.: 01-2119979081-35-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Repr. 2: H361d - Aquatic Chronic 2: H411

**Comment on component parts** For full text of H-statements: see SECTION 16.

### **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

General information Change soaked clothing.

**Inhalation** Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

**Skin contact** In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

**Eye contact** In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

**Ingestion** Consult a doctor immediately.

Rinse out mouth and give plenty of water to drink.

Do not induce vomiting.

## 4.2 Most important symptoms and effects, both acute and delayed

Irritant effects Tiredness Unconsciousness Headache Vertigo

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

Treat symptomatically.

Forward this sheet to your doctor.



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## **SECTION 5: Fire-fighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide.

Water spray jet. Dry powder. Foam.

Extinguishing media that must not

be used

Full water jet.

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

risk of formation of toxic pyrolysis products, carbon monoxide (CO), not combusted

hydrocarbons

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

### **SECTION 6: Accidental release measures**

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

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

Use personal protective equipment (protective gloves, safety glasses, protective clothing).

### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into the drains/surface waters/groundwater.

### 6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous

earth).

Dispose of absorbed material in accordance within the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Provide solvent-resistant and impermeable floor.

Use solvent-resistant equipment. Use only in well-ventilated areas.

Keep away from all sources of ignition - Refrain from smoking.

Take precautionary measures against static discharges.

Vapours can form an explosive mixture with air.

Remove soiled or soaked clothing immediately.

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

Wash hands before breaks and after work.

Use barrier skin cream.

Contaminated work clothing should not be allowed out of the workplace.

Take off contaminated clothing and wash before reuse.



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## 7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Do not store together with oxidizing agents.

Do not store with alkalies.

Do not store together with food and animal food/diet.

Protect from heat/overheating and from sun. Keep container in a well-ventilated place.

Keep container tightly closed.

Recommended storage temperature: < 40°C

## 7.3 Specific end use(s)

See product use, SECTION 1.2



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## **SECTION 8: Exposure controls / personal protection**

## 8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (UK)

Substance

Ethylene glycol

CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1, Reg-No.: 01-2119456816-28-XXXX

Long-term exposure: 20 ppm, 52 mg/m³, Vapour, particulate: 10 mg/m³

Short-term exposure (15-minute): 40 ppm, 104 mg/m<sup>3</sup>

### Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

Substance / EC LIMIT VALUES

Ethylene glycol

CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1, Reg-No.: 01-2119456816-28-XXXX

Eight hours: 20 ppm, 52 mg/m3, H

Short-term (15-minute): 40 ppm, 104 mg/m<sup>3</sup>

### **DNEL**

Substance

Methyl-1H-benzotriazole, CAS: 29385-43-1

Industrial, inhalative, Long-term - systemic effects, 21.2 mg/m³

Industrial, dermal, Long-term - systemic effects, 300 μg/kg bw/day

general population, inhalative, Long-term - systemic effects, 350 μg/m³

general population, dermal, Long-term - systemic effects, 10 µg/kg bw/day

general population, oral, Long-term - systemic effects, 10 µg/kg bw/day

Ethylene glycol, CAS: 107-21-1

Industrial, inhalative, Long-term - local effects, 35 mg/m<sup>3</sup>

Industrial, dermal, Long-term - systemic effects, 106 mg/m³

general population, inhalative, Long-term - local effects, 7 mg/m<sup>3</sup>

general population, dermal, Long-term - systemic effects, 53 mg/m<sup>3</sup>

### **PNEC**

Substance

Methyl-1H-benzotriazole, CAS: 29385-43-1

freshwater, 8 µg/L

seawater, 20 µg/L

sewage treatment plants (STP), 39.4 mg/L

sediment (freshwater), 117 µg/kg sediment dw

sediment (seawater), 292 µg/kg sediment dw

soil, 18.7 µg/kg soil dw

Ethylene glycol, CAS: 107-21-1

sediment (seawater), 3,7 mg/kg

sewage treatment plants (STP), 199,5 mg/l (AF=10)

soil, 1,53 mg/kg

sediment (freshwater), 37 mg/kg

seawater, 1 mg/L

freshwater, 10 mg/L



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### 8.2 Exposure controls

Additional advice on system design 
Ensure adequate ventilation on workstation.

Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of

hazardous substances.

**Eye protection** Safety glasses. (EN 166:2001)

**Hand protection** The details concerned are recommendations. Please contact the glove supplier for further

information.

0,45 mm Nitrile rubber, >480 min (EN 374-1/-2/-3).

**Skin protection** Light protective clothing.

Other Personal protective equipment should be selected specifically for the working place,

depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Avoid contact with eyes and skin.

It is essential for pregnant women to avoid inhaling the product and not to let it come in

contact with the skin.

Respiratory protection In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear

appropriate respiratory protection.

Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)

Thermal hazards non

Delimitation and monitoring of the

environmental exposition

Comply with applicable environmental regulations limiting discharge to air, water and soil.



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## **SECTION 9: Physical and chemical properties**

## Information on basic physical and chemical properties

Physical state liquid **Form** liquid Color Purple Odor characteristic

**Odour threshold** No information available.

pH-value 7,5 - 11

not determined pH-value [1%]

Boiling point or initial boiling point

and boiling range [°C]

>107

Flash point [°C] No information available.

Flammability not applicable Lower explosion limit not applicable Upper explosion limit not applicable

**Oxidising properties** 

Vapour pressure/gas pressure [kPa] No information available.

Density [g/cm<sup>3</sup>] 1,05 - 1,08 not determined Relative density Bulk density [kg/m³] not applicable Solubility in water miscible

Solubility other solvents No information available. Partition coefficient n-octanol/water No information available.

(log value)

No information available. Kinematic viscosity Relative vapour density No information available.

Melting point [°C] <= -35

Auto-ignition temperature [°C] No information available. Decomposition temperature [°C] No information available. Particle characteristics No information available.

Other information

none

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No dangerous reactions known if used as directed.

## 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

Reactions with acids.

### 10.4 Conditions to avoid

Strong heating.



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## 10.5 Incompatible materials

No information available.

## 10.6 Hazardous decomposition products

No hazardous decomposition products known.



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## **SECTION 11: Toxicological information**

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

### Acute oral toxicity

Substance
Methyl-1H-benzotriazole, CAS: 29385-43-1
LD50, oral, Rat, 720 mg/kg (Lit.)
NOAEL, oral, Rat, 150 mg/kg bw/day
Ethylene glycol, CAS: 107-21-1
LD50, oral, Rat, 7712 mg/kg bw
ATE, oral, 500 mg/kg (Acute Tox. 4)
3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1
LD50, oral, Rat, 1160 mg/kg

### Acute dermal toxicity

Substance	
Methyl-1H-benzotriazole, CAS: 29385-43-1	
LD50, dermal, Rat, > 2000 mg/kg	
Ethylene glycol, CAS: 107-21-1	
LD50, dermal, mouse, > 3500 mg/kg bw	
3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1	
LD50, dermal, mouse, > 2000 mg/kg	

## Acute inhalational toxicity

Specific target organ toxicity —

single exposure

Substance
Ethylene glycol, CAS: 107-21-1
LC50, inhalative, Rat, > 2,5 mg/L air, 6h

Serious eve damage/irritation	Based on the available information	the classification criteria are not fulfilled

Substance
Ethylene glycol, CAS: 107-21-1
Eye, Rabbit, In vivo study, non-irritating

Skin corrosion/irritation	Based on the available information.	the classification criteria are not fulfilled.

Substance
Ethylene glycol, CAS: 107-21-1
dermal, Rabbit, In vivo study, non-irritating

### Respiratory or skin sensitisation Based on the available information, the classification criteria are not fulfilled.

Substance
Ethylene glycol, CAS: 107-21-1
dermal, Guinea pig, In vivo study, non-sensitizing

Specific target organ toxicity — repeated exposure	May cause damage to organs through prolonged or repeated exposure if swallowed. (kidneys) Calculation method
- opoulou oxpooulo	

Substance	
Ethylene glycol, CAS: 107-21-1	

Based on the available information, the classification criteria are not fulfilled.



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NOAEL, dermal, Dog, 2200 mg/kg bw/day, adverse effect observed

NOEL, oral, Rat, 150 mg/kg bw/day, OECD 408, adverse effect observed

Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

Substance

Ethylene glycol, CAS: 107-21-1

in vitro, OECD 471, no adverse effect observed

Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled.

- Fertility

Substance

Ethylene glycol, CAS: 107-21-1

NOAEL, oral, Rat, > 1000 mg/kg bw/day, no adverse effect observed

- Development

Substance

Ethylene glycol, CAS: 107-21-1

NOAEL, oral, Rat, 500 mg/kg bw/day, no adverse effect observed

Carcinogenicity

Based on the available information, the classification criteria are not fulfilled.

Substance

Ethylene glycol, CAS: 107-21-1

NOAEL, oral, Rat, 1000 mg/kg bw/day, In vivo study, no adverse effect observed

**Aspiration hazard** 

Based on the available information, the classification criteria are not fulfilled.

**General remarks** 

Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

11.2 Information on other hazards

11.2.1 Endocrine disrupting

properties

Does not contain a relevant substance that meets the classification criteria.

11.2.2 Other information

none



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## **SECTION 12: Ecological information**

## 12.1 Toxicity

Substance
Methyl-1H-benzotriazole, CAS: 29385-43-1
LC50, (96h), fish, 55 - 180 mg/L
EC50, (48h), Invertebrates, 8.58 - 15.8 mg/L
EC50, (72h), Algae, 29 - 75 mg/L
NOEC, (21d), Invertebrates, 18.4 mg/L
Ethylene glycol, CAS: 107-21-1
LC50, (3d), fish, 72.86 g/L
LC50, (28d), fish, 1,5 g/L
EC50, (48h), Invertebrates, 100 mg/L
EC50, (21d), Invertebrates, 33,911 g/L
EC50, (4d), Invertebrates, 3,536 - 13 g/L
3,5,5-Trimethylhexanoic acid, CAS: 3302-10-1
LC50, (96h), fish, 122 mg/L (OECD 203)
EC50, (72h), Algae, 51 mg/L (OECD 201)
EC50, (3h), Microorganisms, 470 mg/L (OECD 209)
NOEC, (48h), Daphnia magna, 68 mg/L (OECD 202)

## 12.2 Persistence and degradability

Behaviour in environment compartments

Behaviour in sewage plant

Biological degradability

The product is biodegradable.

### 12.3 Bioaccumulative potential

Product has having no bioaccumulation potential.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

## 12.6 Endocrine disrupting properties

Does not contain a relevant substance that meets the classification criteria.

## 12.7 Other adverse effects

Ecological data of complete product are not available.

Do not discharge product unmonitored into the environment or into the drainage.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.



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## **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

**Product** 

Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended)

160114\*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150110\* packaging containing residues of or contaminated by hazardous substances

### **SECTION 14: Transport information**

### 14.1 UN number or ID number

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with not applicable

**IMDG** 

Air transport in accordance with IATA not applicable

## 14.2 UN proper shipping name

Transport by land according to

ADR/RID

NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

### 14.3 Transport hazard class(es)

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with

**IMDG** 

Air transport in accordance with IATA not applicable



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### 14.4 Packing group

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with

**IMDG** 

not applicable

Air transport in accordance with IATA not applicable

### 14.5 Environmental hazards

Transport by land according to

ADR/RID

no

Inland navigation (ADN)

no

Marine transport in accordance with

**IMDG** 

Air transport in accordance with IATA no

### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

## 14.7 Maritime transport in bulk according to IMO instruments

not applicable

### **SECTION 15: Regulatory information**

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

**EEC-REGULATIONS** 2008/98/EG (2000/532/EC ); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006

(REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131;

(EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707

- Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

- Annex I (REACH) The product is not subject to Annex I restrictions.

- Annex XIV (REACH) According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain

any substances  $\geq 0.1\%$  that are subject to authorisation.

- Annex XVII (REACH) According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1%

of substances with the following restrictions. 75

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the

following restrictions.

ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)

NATIONAL REGULATIONS (UK): EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK

REACH; GB CLP.

- Observe employment restrictions

TRANSPORT-REGULATIONS

for people

Observe employment restrictions for young people.

Observe employment restrictions for mothers-to-be and nursing mothers.

Observe employment restrictions for women of child-bearing age.

- VOC (2010/75/CE) 0 °

## 15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.



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### **SECTION 16: Other information**

## 16.1 Hazard statements (SECTION 3)

H411 Toxic to aquatic life with long lasting effects. H361d Suspected of damaging the unborn child.

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H302 Harmful if swallowed.

### 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par

voie de navigation intérieure ATE = acute toxicity estimate

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform Chemical Information Database

IVIS = In vitro irritation score LC50 = Lethal concentration, 50%

LD50 = Median lethal dose LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading LQ = Limited Quantities

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value – time-weighted average TLV®STEL = Threshold limit value – short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

### 16.3 Other information

Classification procedure Acute Tox. 4: H302 Harmful if swallowed. (Calculation method)

STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure if

swallowed. (kidneys) (Calculation method)

**Modified position** 1.3, 1.4, 2.3, 3.2, 4.2, 8.1, 8.2, 9.1, 11.1, 11.2, 12.6, 12.7, 15.1, 15.2, 16.1, 16.2, 16.3