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

#### **Product identifier**

antifreeze G 13

Article number: 38202, 38201, 38200 UFI: GNSD-K3CJ-Y00M-P7EC

#### 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

None known.

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

Ferdinand Bilstein GmbH + Co. KG Company

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**

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

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

Eye Irrit. 2: H319 Causes serious eye irritation. Acute Tox. 4: H302 Harmful if swallowed.

Label elements 2.2

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

Hazard pictograms



Signal word WARNING Contains: Ethylene glycol

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

H319 Causes serious eye irritation.

H302 Harmful if swallowed.

**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.

P280 Wear protective gloves / protective clothing / eye protection / face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice / attention.

P270 Do no eat, drink or smoke when using this product. P314 Get medical advice / attention if you feel unwell.

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#### 2.3 Other hazards

**Human health dangers** If swallowed or in the event of vomiting, risk of product entering the lungs.

Frequent persistent contact with the skin can cause skin irritation.

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

Contains no ingredients with endocrine-disrupting properties.

Other hazards 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
30 - < 80	Ethylene glycol
	CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1
	GHS/CLP: Acute Tox. 4: H302 - STOT RE 2: H373
> 10	Glycerol
	CAS: 56-81-5, EINECS/ELINCS: 200-289-5
1 - < 3	potassium 2-ethylhexanoate
	CAS: 3164-85-0, EINECS/ELINCS: 221-625-7, Reg-No.: 01-2119980714-29-XXXX
	GHS/CLP: Repr. 2: H361d - Eye Dam. 1: H318 - Skin Irrit. 2: H315
0.1 - < 0.3	Methyl-1H-benzotriazole
	CAS: 29385-43-1, EINECS/ELINCS: 249-596-6, Reg-No.: 01-2119979081-35-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Aquatic Chronic 2: H411 - Repr. 2: H361d

Comment on component parts

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

For full text of H-statements: see SECTION 16.

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

#### 4.1 Description of first aid measures

General information Take off contaminated clothing and wash before reuse.

**Inhalation** Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

Skin contact When in contact with the skin, clean with soap and water.

Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

**Ingestion** Seek medical advice 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

No information available.

#### 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)

#### 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.

Forms slippery surfaces with water.

#### 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

Use only in well-ventilated areas.

The product is combustible.

Remove soiled or soaked clothing immediately. Do not eat, drink or smoke when using this product.

Use barrier skin cream.

Wash hands before breaks and after work.

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

Take off contaminated clothing and wash before reuse.

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

Keep only in original container.

Do not store together with oxidizing agents.

Keep container in a well-ventilated place.

Keep container tightly closed.

#### 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 (GB)

Ethylene glycol

CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1

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

Short-term exposure (15-minute): 40 ppm, 104 mg/m³

Glycerol

CAS: 56-81-5, EINECS/ELINCS: 200-289-5

Long-term exposure: 10 mg/m³

### Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES	
Ethylene glycol	
CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1	
Eight hours: 20 ppm, 52 mg/m³, H	
Short-term (15-minute): 40 ppm, 104 mg/m <sup>3</sup>	

#### **DNEL**

Substance
Glycerol, CAS: 56-81-5
Industrial, inhalative, Long-term - local effects, 56 mg/m³
general population, oral, Long-term - systemic effects, 229 mg/kg bw/day
general population, inhalative, Long-term - local effects, 33 mg/m³
potassium 2-ethylhexanoate, CAS: 3164-85-0
Industrial, dermal, Long-term - systemic effects, 5.95 mg/kg bw/d
Industrial, inhalative, Long-term - systemic effects, 32 mg/m³
general population, oral, Long-term - systemic effects, 2.5 mg/kg bw/d
general population, dermal, Long-term - systemic effects, 2.98 mg/kg bw/d
general population, inhalative, Long-term - systemic effects, 8 mg/m³
Methyl-1H-benzotriazole, CAS: 29385-43-1
Industrial, dermal, Long-term - systemic effects, 300 μg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 21.2 mg/m³
general population, oral, Long-term - systemic effects, 10 μg/kg bw/day
general population, dermal, Long-term - systemic effects, 10 μg/kg bw/day
general population, inhalative, Long-term - systemic effects, 350 μg/m³

#### **PNEC**

Substance	
Glycerol, CAS: 56-81-5	
sediment (seawater), 330 µg/kg sediment dw	
sediment (freshwater), 3.3 mg/kg sediment dw	
sewage treatment plants (STP), 1 g/L	
seawater, 88.5 μg/L	
freshwater, 885 µg/L	
soil, 141 μg/kg soil dw	



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potassium 2-ethylhexanoate, CAS: 3164-85-0	
seawater, 36 µg/L	
sewage treatment plants (STP), 71.7 mg/L	
sediment (freshwater), 6.37 mg/kg	
freshwater, 360 µg/L	
sediment (seawater), 637 μg/kg	
soil, 1.06 mg/kg	
Methyl-1H-benzotriazole, CAS: 29385-43-1	
sediment (freshwater), 117 μg/kg sediment dw	
freshwater, 8 µg/L	
sewage treatment plants (STP), 39.4 mg/L	
sediment (seawater), 292 µg/kg sediment dw	
soil, 18.7 μg/kg soil dw	
seawater, 20 µg/L	

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

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

information.

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.

Do not inhale vapours.

Respiratory protection Respiratory protection mask in the event of high concentrations.

Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)

Thermal hazards none

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**

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

Physical stateliquidFormliquidColorvioletOdormild

Odour threshold No information available.

pH-value 8.35

pH-value [1%] No information available.

**Boiling point [°C]** > 170 (352°F)

Flash point [°C] 122

Flammability (solid, gas) [°C] No information available.

Lower explosion limit No information available.

Upper explosion limit No information available.

Oxidising properties no

Vapour pressure/gas pressure [kPa]No information available.Density [g/cm³]1.13 (20 °C / 68,0 °F)Relative densitynot determinedBulk density [kg/m³]not applicableSolubility in watermiscible

Solubility other solvents No information available.

Partition coefficient [n-octanol/water] No information available.

Kinematic viscosity No information available.

Relative vapour density > 1

**Evaporation speed** No information available.

Melting point [°C] -18

Auto-ignition temperature [°C] not applicable

Decomposition temperature [°C] No information available.

Particle characteristics No information available.

#### 9.2 Other information

none

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

#### 10.1 Reactivity

No dangerous reactions known if used as directed.

#### 10.2 Chemical stability

The product is stable under standard conditions.

#### 10.3 Possibility of hazardous reactions

Reactions with acids, alkalies and oxidizing agents.

#### 10.4 Conditions to avoid

See SECTION 7.2.

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#### 10.5 Incompatible materials

not determined

#### 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

Product
ATE-mix, oral, mouse, 2016 mg/kg bw

Substance
Glycerol, CAS: 56-81-5

LD50, oral, Rat, 27 mg/kg bw

Ethylene glycol, CAS: 107-21-1

LD50, oral, Rat, 4700 mg/kg

LDLo, oral, Human, ca. 1600 mg/kg Lit.

potassium 2-ethylhexanoate, CAS: 3164-85-0

LD50, oral, Rat, 2043 mg/kg bw

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

Acute dermal toxicity

Product

ATE-mix, dermal, mouse, > 3500 mg/kg bw

Substance
Glycerol, CAS: 56-81-5

LD50, dermal, Guinea pig, 45 mL/kg bw

Ethylene glycol, CAS: 107-21-1

LD50, dermal, mouse, > 3500 mg/kg Lit.

potassium 2-ethylhexanoate, CAS: 3164-85-0

LD50, dermal, Rabbit, 2000 mg/kg bw

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

LD50, dermal, Rabbit, 2000 mg/kg bw

LD50, oral, Rat, 720 mg/kg

NOAEL, oral, Rat, 150 mg/kg bw/day

#### Acute inhalational toxicity

Product

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

Substance
Ethylene glycol, CAS: 107-21-1

LC50, inhalative, Rat, > 200 mg/m³ 4h

potassium 2-ethylhexanoate, CAS: 3164-85-0

LC50, inhalative, Rat, 110 mg/m³ (8 h)

**Serious eye damage/irritation** Toxicological data of complete product are not available.

Irritant
Calculation method

Substance

potassium 2-ethylhexanoate, CAS: 3164-85-0

Eye, in vitro / ex vivo, OECD 437, corrosive

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Skin corrosion/irritation

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

Substance

potassium 2-ethylhexanoate, CAS: 3164-85-0

Rabbit, in vivo, OECD 404, irritant

Respiratory or skin sensitisation

Specific target organ toxicity —

Specific target organ toxicity —

single exposure

repeated exposure

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

Toxicological data of complete product are not available.

May cause damage to organs through prolonged or repeated exposure.

Calculation method

Substance

Glycerol, CAS: 56-81-5

NOAEL, inhalative, Rat, 167 mg/m³ air

NOEL, oral, Rat, 50000 ppm

Ethylene glycol, CAS: 107-21-1

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

NOAEL, oral, Rat, 150 mg/kg bw/day, adverse effect observed

Mutagenicity

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

Reproduction toxicity

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

- Fertility

Substance

potassium 2-ethylhexanoate, CAS: 3164-85-0

NOAEL, Rat, 300 mg/kg bw/day (P0)

- Development

Substance

potassium 2-ethylhexanoate, CAS: 3164-85-0

NOAEL, Rat, 300 mg/kg bw/day (P0)

Carcinogenicity

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

**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.

11.2 Information on other hazards

Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

Other information

none

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#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product		
Based on the available information, the classification criteria are not fulfilled.		
Substance		
Glycerol, CAS: 56-81-5		
LC50, (4d), fish, 54 g/L		
EC50, (24h), Invertebrates, 10 g/L		
Ethylene glycol, CAS: 107-21-1		
LC50, (96h), fish, 41000 mg/l		
EC50, (48h), Daphnia magna, 34250 mg/l		
potassium 2-ethylhexanoate, CAS: 3164-85-0		
LC50, (96h), fish, 100 mg/L		
EC50, (6d), Algae, 49.3 mg/L		
EC50, (48h), Crustacea, 85.4 mg/L		
Methyl-1H-benzotriazole, CAS: 29385-43-1		
LC50, (96h), fish, 55 - 180 mg/L		
EC50, (72h), Algae, 29 - 75 mg/L		
EC50, (48h), Invertebrates, 8.58 - 15.8 mg/L		
NOEC, (21d), Invertebrates, 18.4 mg/L		

#### 12.2 Persistence and degradability

Behaviour in environment compartments

Behaviour in sewage plant not determined Biological degradability not determined

#### 12.3 Bioaccumulative potential

No information available.

#### 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

Contains no ingredients with endocrine-disrupting properties.

#### 12.7 Other adverse effects

No classification on the basis of the calculation procedure of the preparation directive.

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.

Dispose of as hazardous waste.

Waste no. (recommended) 160114\*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150102

150104

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

**IMDG** 

not applicable

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"

**IMDG** 

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

#### 14.3 Transport hazard class(es)

Transport by land according to

not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with

IMDG

not applicable

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 no

**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/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006

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

(EU) 517/2014

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

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

REACH; GB CLP.

- Observe employment restrictions

for people

Observe employment restrictions for mothers-to-be and nursing mothers. Observe  $\,$ 

employment restrictions for young people.

- VOC (2010/75/CE) 79,99 %

#### 15.2 Chemical safety assessment

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

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

#### 16.1 Hazard statements (SECTION 3)

H411 Toxic to aquatic life with long lasting effects.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H361d Suspected of damaging the unborn child.

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

H302 Harmful if swallowed.

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

(Calculation method)

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method) Acute Tox. 4: H302 Harmful if swallowed. (Calculation method)

Modified position SECTION 11 been added: Contains no ingredients with endocrine-disrupting properties.

SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties.