antifreeze G 13 Article number 38202, 38201, 38200



Page 1 / 16

Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2023, Revision 15.03.2023

Version 11.0. Supersedes version: 10.0

1.1 Product identifier

antifreeze G 13

Article number: 38202, 38201, 38200

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

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

1.2.1 Relevant uses

Anti-freezing agents

1.2.2 Uses advised against

None known.

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)

Company +49 2333 911-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Repr. 2: H361d Suspected of damaging the unborn child.

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

antifreeze G 13 Article number 38202, 38201, 38200



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2023, Revision 15.03.2023

Version 11.0. Supersedes version: 10.0

Page 2 / 16

2.2 Label elements

Signal word

The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200

(HCS 2012)

Hazard pictograms

WARNING

Contains: Ethylene glycol, CAS: 107-21-1

> potassium 2-ethylhexanoate, CAS: 3164-85-0 Methyl-1H-benzotriazole, CAS: 29385-43-1

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

H361d Suspected of damaging the unborn child.

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 vapors.

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

P405 Store locked up.

GHS.P501-2

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.

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.

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

This product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200.

SECTION 3: Composition / Information on ingredients

Substances

Not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
30 - < 80	Ethylene glycol
	CAS: 107-21-1
> 10	Glycerol
	CAS: 56-81-5
1 - < 3	potassium 2-ethylhexanoate
	CAS: 3164-85-0
0.1 - < 0.3	Methyl-1H-benzotriazole
	CAS: 29385-43-1

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.

antifreeze G 13 Article number 38202, 38201, 38200



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2023, Revision 15.03.2023

Version 11.0. Supersedes version: 10.0

Page 3 / 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 the doctor.

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

antifreeze G 13 Article number 38202, 38201, 38200



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2023, Revision 15.03.2023

Version 11.0. Supersedes version: 10.0

Page 4 / 16

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

antifreeze G 13 Article number 38202, 38201, 38200



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2023, Revision 15.03.2023

Version 11.0. Supersedes version: 10.0

Page 5 / 16

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (US)

Substance	
Ethylene glycol	
CAS: 107-21-1	
Long-term exposure: 100 mg/m³, ACGIH (Ceiling (aerosol only))	
Glycerol	
CAS: 56-81-5	
Long-term exposure: 15 mg/m³, (mist) total dust	

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		
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		

antifreeze G 13 Article number 38202, 38201, 38200



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2023, Revision 15.03.2023

Version 11.0. Supersedes version: 10.0 Page 6 / 16

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 > 0.5 mm; 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.

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 vapors.

Respiratory protection Breathing apparatus in the event of high concentrations.

Short term: filter apparatus, combination filter A-P2.

Thermal hazards None

Delimitation and monitoring of the

environmental exposition

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

antifreeze G 13 Article number 38202, 38201, 38200



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2023, Revision 15.03.2023

Version 11.0. Supersedes version: 10.0

Page 7 / 16

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical stateLiquidFormLiquidColorredOdormild

Odor 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 No information available.

Lower explosion limit No information available.

Upper explosion limit No information available.

Oxidizing properties No

Vapor 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.

antifreeze G 13 Article number 38202, 38201, 38200



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2023, Revision 15.03.2023

Version 11.0. Supersedes version: 10.0

Page 8 / 16

10.5 Incompatible materials

Not determined

10.6 Hazardous decomposition products

No hazardous decomposition products known.

antifreeze G 13 Article number 38202, 38201, 38200



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2023, Revision 15.03.2023

Version 11.0. Supersedes version: 10.0

Page 9 / 16

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

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
LD50, oral, Rat, 720 mg/kg
NOAEL, oral, Rat, 150 mg/kg bw/day

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

Acute inhalational toxicity

Product
inhalative, Based on the information available, the classification criteria have not been 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]

Skin corrosion/irritation

Based on the information available, the classification criteria have not been fulfilled.

Substance

antifreeze G 13 Article number 38202, 38201, 38200



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2023, Revision 15.03.2023

Version 11.0. Supersedes version: 10.0 Page 10 / 16

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

Rabbit, in vivo, OECD 404, irritant

Respiratory or skin sensitisationBased on the information available, the classification criteria have not been fulfilled.

Specific target organ toxicity — single exposure

Based on the information available, the classification criteria have not been fulfilled.

Specific target organ toxicity —

repeated exposure

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, dogs, 2200 mg/kg bw/day, adverse effect observed

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

Mutagenicity Based on the information available, the classification criteria have not been fulfilled.

Reproduction toxicity Toxicological data of complete product are not available.

Suspected of damaging the unborn child.

Calculation method

- 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 information available, the classification criteria have not been fulfilled.

Aspiration hazard General remarks Based on the information available, the classification criteria have not been fulfilled.

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.

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antifreeze G 13 Article number 38202, 38201, 38200



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2023, Revision 15.03.2023

Version 11.0. Supersedes version: 10.0 Page 11 / 16

SECTION 12: Ecological information

12.1 Toxicity

Product		
Based on the information available, the classification criteria have not been 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

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.

antifreeze G 13 Article number 38202, 38201, 38200



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2023, Revision 15.03.2023

Version 11.0. Supersedes version: 10.0

Page 12 / 16

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

Dispose of as hazardous waste.

Contaminated packaging

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

Uncontaminated packaging may be taken for recycling.

RCRA Hazard Class (40CFR 261)

Waste must be disposed of in accordance with federal, state and local environmental control

regulations. Consult your local or regional authorities.

SECTION 14: Transport

14.1 UN 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

DOT Road Shipment Information (49 Not applicable

CFR)

14.2 UN proper shipping name

Transport by land according to

ADR/RID

NO DANGEROUS GOODS

Inland navigation (ADN)

NO DANGEROUS GOODS

IMDG

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

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

DOT Road Shipment Information (49 NOT CLASSIFIED AS "DANGEROUS GOODS"

CFR)

antifreeze G 13 Article number 38202, 38201, 38200



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2023, Revision 15.03.2023

Version 11.0. Supersedes version: 10.0 Page 13 / 16

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

DOT Road Shipment Information (49 Not applicable CFR)

14.4 Packing group

Transport by land according to ADR/RID

Not applicable

Inland navigation (ADN)

Not applicable

Marine transport in accordance with Not applicable

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable CFR)

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

DOT Road Shipment Information (49 No

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

Not applicable

antifreeze G 13 Article number 38202, 38201, 38200



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2023, Revision 15.03.2023

Version 11.0. Supersedes version: 10.0

Page 14 / 16

SECTION 15: Regulatory information

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

US Regulations

National regulations 29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA,

TSCA, California - Prop. 65

- SARA, 302 This product does not contain any ingredients regulated under this list.

- SARA, 311

SARA, 313 This product contain one ingredient regulated under this list.

- CA Proposition 65 Some chemical substances Ethylene glycol in this material are named in California-P65 list.

 \bigwedge

WARNING: This product can expose you to chemicals including "Ethylene glycol", 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."

- TSCA All chemical substances in this material are included on or exempted from listing on the TSCA

Inventory.

- FDA

American Conference of Governmental Industrial Hygienists - ACGIH

International Agency for Research on

Cancer IARC

National Toxicology Program - NTP This product is named NTP - National Toxicology Program.

HAP-VOC HAP's-content: 100%

Transport-regulations DOT-Classification, ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)

15.2 Chemical safety assessment

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

antifreeze G 13 Article number 38202, 38201, 38200



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2023, Revision 15.03.2023

Version 11.0. Supersedes version: 10.0

Page 15 / 16

SECTION 16: Other information

16.1 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;

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;

CAS = Chemical Abstracts Service;

CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;

CFR = Code of Federal Regulations;

CPR = Controlled Products Regulations;

DMEL = Derived Minimum Effect Level;

DNEL = Derived No Effect Level;

DOT = Department of Transportation;

EC50 = Median effective concentration;

EPA = Environmental Protection Agency;

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;

IARC = International Agency of Research on Cancer;

IATA = International Air Transport Association;

TSCA = Toxic Substance Control Act;

HMIS = Hazardous Materials Identification System;

NFPA = National Fire Protection Association;

NIOSH = National Institute for Occupational Safety and Health;

OSHA = Occupational Safety and Health Administration;

LC50 = Lethal concentration, 50%;

LD50 = Median lethal dose, 50%;

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

PBT = Persistent, Bioaccumulative and Toxic substance;

PNEC = Predicted No-Effect Concentration;

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals;

SARA = Superfund Amendments and Reauthorization Act;

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;

16.2 Ratings

antifreeze G 13 Article number 38202, 38201, 38200



Ferdinand Bilstein GmbH + Co. KG

Date printed 15.03.2023, Revision 15.03.2023

Version 11.0. Supersedes version: 10.0 Pa

Page 16 / 16

NFPA Ratings



TOP, FLAMMABILITY: 1 - Slight Hazard LEFT, HEALTH: 2*- Moderate chronic Hazard RIGHT, REACTIVITY: 0 - Minimal Hazard BOTTOM, SPECIAL NOTICE: -

HMIS Ratings



- 2*- Moderate chronic Hazard
- 1 Slight Hazard
- 0 Minimal Hazard
- X Personal protection rating to be supplied by user depending on use conditions

PERSONAL PROTECTION:

- A Safety Glasses
- B Safety Glasses and Gloves
- C Safety Glasses, Gloves and Protection Apron
- D Face Shield, Gloves and Protection Apron
- E Safety Glasses, Gloves and Dust Respirator
- F Safety Glasses, Gloves, Protection Apron and Dust Respirator
- G Safety Glasses, Gloves and Vapor Respirator.
- H Splash Goggles, Gloves, Protection Apron and Vapor Respirator.
- I Safety Glasses, Gloves, Dust Respirator and Vapor Respirator.
- J Splash Goggles, Gloves, Protection Apron, Dust Respirator and Vapor Respirator.
- K Airline Mask or Hood, Gloves, Full Suit and Boots.
- X Personal protection rating to be supplied by user depending on use conditions

Modified position

SECTION 11 been added: Contains no ingredients with endocrine-disrupting properties. SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties.