Ferdinand Bilstein GmbH + Co. KG

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1.1	Product identifier	
		febi 38200 antifreeze G 13
		Article number 38202, 38201, 38200
.2	Relevant identified uses of the	e substance or mixture and uses advised against
.2.1	Relevant uses	
		Anti-freezing agents
22	2 Uses advised against	
		None known.
.3	Details of the supplier of the s	-
	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	sdb@chemiebuero.de
.4	Emergency telephone numbe	,
.4		
		1/0 (0)80 102/0 (2/b) (onglich)
	Advisory body	+49 (0)89-19240 (24h) (english)
SEC	TION 2: Hazards identification	+49 (0)89-19240 (24h) (english)
	TION 2: Hazards identification	ce or mixture Acute Tox. 4: H302 Harmful if swallowed.
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.1	TION 2: Hazards identification	ce or mixture Acute Tox. 4: H302 Harmful if swallowed.
SEC 2.1 2.2	TION 2: Hazards identification	ce or mixture
.1	TION 2: Hazards identification	ce or mixture Acute Tox. 4: H302 Harmful if swallowed. STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure
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2.1	TION 2: Hazards identification Classification of the substanc Label elements Hazard pictograms Signal word Contains:	Ce or mixture Acute Tox. 4: H302 Harmful if swallowed. STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure The product is classified and required to be labelled in accordance with EC-Directives WARNING Ethylene glycol
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SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

	Range [%]	Range [%] Substance		
	60 - 100	- 100 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 T	ox. 4: H302 - STOT RE 2: H373	
	10 - 30	Glycerol		
		CAS: 56-81-5, EINECS/ELINCS: 200-289-5		
	1 - < 3	Sodium 2-ethylhexanoate		
		CAS: 19766-89-3, EINECS/ELINCS: 243-283-8		
		GHS/CLP: Repr. 2: H361d		
		L		
	Comment on com	ponent parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%. For full text of H-statements and R-phrases: see SECTION 16.	
SEC	TION 4: First aid	measures		
4.1	Description of fi	irst aid measures		
	General information	on	Change soaked clothing.	
	Inhalation		Ensure supply of fresh air.	
			In the event of symptoms seek for 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				
4.2				
			Diarrhoea	
			Spasms	
	Tiredness			
4.3	Indication of any immediate medical attention and special treatment needed		lical attention and special treatment needed	
			Treat symptomatically.	
			Forward this sheet to the doctor.	
SEC	TION 5: Fire-fight	ting measures		
	_	_		
5.1	Extinguishing m			
	Suitable extinguis	shing media	Carbon dioxide. Water spray jet. Dry powder. Foam.	
	Extinguishing me be used	dia that must not	Full water jet.	
5.2	2 Special hazards arising from the substance or mixture		substance or mixture	
			Risk of formation of toxic pyrolysis products.	

Risk of formation c oxic pyrolysis products. Carbon monoxide (CO)

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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.
SEC	TION 6: Accidental release measur	es
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 contain	ment 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.
C 4	Deference to other costions	
0.4	Reference to other sections	See SECTION 8+13
SEC [.]	TION 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	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)

Range [%]	Substance		
60 - 100	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/m ³ , Vapour, particulate: 10 mg/m ³		
	Short-term exposure (15-minute): 40 ppm, 104 mg/m ³		
10 - 30	Glycerol		
	CAS: 56-81-5, EINECS/ELINCS: 200-289-5		
	Long-term exposure: 10 mg/m ³ , (mist)		

Ingredients with occupational exposure limits to be monitored (EU)

seawater, 1 mg/l. freshwater, 10 mg/l.

Range [%] Substance / EC LIMIT VALUES		
60 - 100 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/m ³ , H		
	Short-term (15-minute): 40 ppm, 104 mg/m ³	

DNEL

Range [%]	Substance
60 - 100 Ethylene glycol, CAS: 107-21-1	
Industrial, dermal, Long-term - systemic effects: 106 mg/m ³ .	
	Industrial, inhalative, Long-term - local effects: 35 mg/m ³ .
general population, dermal, Long-term - systemic effects: 53 mg/m ³ .	
	general population, inhalative, Long-term - local effects: 7 mg/m ³ .
PNEC	
Range [%]	Substance
60 - 100	Ethylene glycol, CAS: 107-21-1
	soil, 1,53 mg/kg.
	sediment (freshwater), 20,9 mg/kg.
	sewage treatment plants (STP), 199,5 mg/l.

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8.2	Exposure controls	
	Additional advice on system design	Ensure adequate ventilation on workstation.
	Eye protection	Safety glasses.
	Hand protection	Nitrile rubber, >480 min (EN 374). 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 of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. Avoid contact with eyes and skin. Do not inhale vapours.
	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	See SECTION 6+7.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

information on basic physical and	r enemiear properti
Form	liquid
Color	violet
Odor	mild
Odour threshold	not determined
pH-value	8,6
pH-value [1%]	not determined
Boiling point [°C]	178 (352°F)
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,1 (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	miscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	> 1
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	not determined
Other information	
	none

SECTION 10: Stability and reactivity

10.1 Reactivity

9.2

No dangerous reactions known if used as directed.

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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.

10.5 Incompatible materials

not determined

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%] Substance	
60 - 100	Ethylene glycol, CAS: 107-21-1
	LD50, dermal, mouse: > 3500 mg/kg.
	LD50, oral, Rat: 7712 mg/kg.
	LC50, inhalative, Rat: > 2,5 mg/l 6h.
	LDLo, oral, Human: ca. 1600 mg/kg.
10 - 30	O Glycerol, CAS: 56-81-5
	LD50, oral, Rabbit: 12600 mg/kg.
	LD50, oral, Rabbit: >18700 mg/kg.

Serious eye damage/irritation	not determined
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	not determined
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	not determined
General remarks	

The product was classified on the basis of the calculation procedure of the preparation directive.

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.

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SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance	
60 - 100 Ethylene glycol, CAS: 107-21-1		
LC50, (96h), Pimephales promelas: 72860 mg/l.		
EC50, (96h), Selenastrum capricornutum: 6500 - 13000 mg/l.		
	EC50, (48h), Daphnia magna: > 100 mg/l OECD 202.	
10 - 30	Glycerol, CAS: 56-81-5	
	EC50, (16h), Pseudomonas putida: >10000 mg/l.	

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
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 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.

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*	
	Uncontaminated packaging may be taken for recycling. 150102 150104	

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

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14.2	UN	proper	shipping	name
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Transport by land according to NO DANGEROUS GOODS ADR/RID

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)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

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

	EEC-REGULATIONS	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
	TRANSPORT-REGULATIONS	DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).
	NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
	- Observe employment restrictions for people	yes
	- VOC (1999/13/CE)	0 %
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)

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	acron	yms:
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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 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 ELINCS = European List of Notified Chemical Substances 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 LC50 = Lethal concentration, 50% LD50 = Median lethal dose 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 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. (Calculation method) Modified position SECTION 2 been added: 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. SECTION 2 been added: H373 May cause damage to organs through prolonged or repeated exposure. SECTION 2 been added: STOT RE 2 SECTION 2 been added: H302 Harmful if swallowed.

SECTION 2 been added: Acute Tox. 4