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

1.1 Product identifier

febi 02374 antifreeze Article number: 89428, 88541, 02374 UFI: SUJ6-R0CF-X00X-60P0

- 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.

1.3 Details of the supplier of the safety data sheet

Company

1.

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
.4	Emergency telephone number	
	Advisory body	+49 (0)89-19240 (24h) (English)
	Company	+49 2333 911-0

SECTION 2: Hazards identification

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

Acute Tox. 4: H302 Harmful if swallowed. STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. Eye Irrit. 2: H319 Causes serious eye irritation.

2.2 Label elements

Hazard pictograms

Signal word Contains: Hazard statements

Precautionary statements

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

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



WARNING

Ethylene glycol

H302 Harmful if swallowed.



H319 Causes serious eye irritation. 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. P280 Wear eye protection / face protection. 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.

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2.3 Other hazards

Physico-chemical hazards No particular hazards known. 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
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
	GHS/CLP: Acute Tox. 4: H302 - STOT RE 2: H373
1 - < 2.5	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	1H-Indene-1,3(2H)-dione, 2-(2-quinolinyl)-, sulfonated, sodium salts
	CAS: 95193-83-2, EINECS/ELINCS: 305-895-4, Reg-No.: 01-2120752822-53

Comment on o	component	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.

SECTION 4: First aid measures

Description of first aid measures 41

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	In case of contact with skin wash off immediately 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	Consult a doctor immediately. Rinse out mouth and give plenty of water to drink. Do not induce vomiting.
.2 Most important sym	ptoms and effects, both acute and delayed
	Tiredness
	Spasms

Diarrhoea If swallowed or in the event of vomiting, risk of product entering the lungs.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Forward this sheet to your doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media foam, dry powder, water spray jet, carbon dioxide Extinguishing media that must not Full water jet. be used

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5.2	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.	
SEC	TION 6: Accidental release measu	ires	
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	nment 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	
SEC	SECTION 7: Handling and storage		
	TON 7. Handling and storage		
7.1	Precautions for safe handling		
7.1		Use only in well-ventilated areas. Avoid spilling or spraying in enclosed areas.	
7.1		•	
7.1		Avoid spilling or spraying in enclosed areas.	
7.1		 Avoid spilling or spraying in enclosed areas. The product is combustible. Take off contaminated clothing and wash before reuse. 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. 	
	Precautions for safe handling	 Avoid spilling or spraying in enclosed areas. The product is combustible. Take off contaminated clothing and wash before reuse. 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. 	
	Precautions for safe handling	Avoid spilling or spraying in enclosed areas. The product is combustible. Take off contaminated clothing and wash before reuse. 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. uding any incompatibilities Keep only in original container.	
	Precautions for safe handling	Avoid spilling or spraying in enclosed areas. The product is combustible. Take off contaminated clothing and wash before reuse. 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. uding any incompatibilities Keep only in original container. Prevent penetration into the ground. Do not store together with oxidizing agents.	
	Precautions for safe handling	Avoid spilling or spraying in enclosed areas. The product is combustible. Take off contaminated clothing and wash before reuse. 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. Uding any incompatibilities Keep only in original container. Prevent penetration into the ground. Do not store together with oxidizing agents. Do not store together with food and animal food/diet. Keep container tightly closed.	

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

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/m ³ , Vapour, particulate: 10 mg/m ³
Short-term exposure (15-minute): 40 ppm, 104 mg/m ³

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, 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

Ethylene gly	ol, CAS: 107-21-1
Industrial, de	rmal, Long-term - systemic effects, 106 mg/m ³
Industrial, in	alative, Long-term - local effects, 35 mg/m ³
general pop	lation, dermal, Long-term - systemic effects, 53 mg/m ³
general pop	lation, inhalative, Long-term - local effects, 7 mg/m ³
potassium 2	ethylhexanoate, CAS: 3164-85-0
Industrial, de	rmal, Long-term - systemic effects, 5,95 mg/kg bw/d
Industrial, in	alative, Long-term - systemic effects, 32 mg/m ³
general pop	lation, oral, Long-term - systemic effects, 2,5 mg/kg bw/d
general pop	lation, dermal, Long-term - systemic effects, 2,98 mg/kg bw/d

PNEC

Substance
Ethylene glycol, CAS: 107-21-1
freshwater, 10 mg/L
seawater, 1 mg/L
sediment (freshwater), 37 mg/kg
soil, 1,53 mg/kg
sewage treatment plants (STP), 199,5 mg/l (AF=10)
sediment (seawater), 3,7 mg/kg
potassium 2-ethylhexanoate, CAS: 3164-85-0
soil, 1.06 mg/kg
sediment (seawater), 637 µg/kg
sediment (freshwater), 6.37 mg/kg
sewage treatment plants (STP), 71.7 mg/L
seawater, 36 µg/L
freshwater, 360 µg/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. > 0,4 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. 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	No information available.
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Color	yellow
Odor	characteristic
Odour threshold	No information available.
pH-value	7,8 - 8,5 (50%)
pH-value [1%]	No information available.
Boiling point [°C]	No information available.
Flash point [°C]	> 100 (DIN 51758)
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	<0,01 (20°C)
Density [g/cm ³]	ca. 1,12 (DIN 51757) (20 °C / 68,0 °F)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	miscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	No information available.
Kinematic viscosity	> 20 mm²/s (20°C)
Relative vapour density	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature	> 400 (DIN 51757)
Decomposition temperature [°C]	No information available.
Particle characteristics	No information available.

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9.2 Other information

No information available.

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 acids, alkalies and oxidizing agents.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

See SECTION 10.3. Oxidizing agent Strong acids.

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, 557 mg/kg bw
Substance
Ethylene glycol, CAS: 107-21-1
LD50, oral, Rat, 7712 mg/kg bw
ATE, oral, 500 mg/kg (Acute Tox. 4)
potassium 2-ethylhexanoate, CAS: 3164-85-0
LD50, oral, Rat, 2043 mg/kg bw
1H-Indene-1,3(2H)-dione, 2-(2-quinolinyl)-, sulfonated, sodium salts, CAS: 95193-83-2
LD50, oral, Rat, > 2000 mg/kg bw

Acute dermal toxicity

Product

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

Substance

 Substance

 Ethylene glycol, CAS: 107-21-1

 LD50, dermal, mouse, >3500 mg/kg bw

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

 LD50, dermal, Rabbit, 2000 mg/kg bw

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, >2.5 mg/L air, 6h	
potassium 2-ethylhexanoate, CAS: 3164-85-0	
LC50, inhalative, Rat, 110 mg/m ³ (8 h)	

Serious eye damage/irritation

Toxicological data of complete product are not available. Irritant

Calculation method

Substance	
Ethylene glycol, CAS: 107-21-1	
Eye, non-irritating	
potassium 2-ethylhexanoate, CAS: 3164-85-0	
Eye, in vitro / ex vivo, OECD 437, corrosive	

Skin corrosion/irritation

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

Substance		
Ethylene glycol, CAS: 107-21-1		
dermal, non-irritating		

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	potassium 2-ethylhexanoate, CAS: 3164-85-0	
Rabbit, in vivo, OEC		CD 404, irritant
Respiratory or ski	n sensitisation	Based on the available information, the classification criteria are not fulfilled.
	Substance	
	Ethylene glycol, CA	S: 107-21-1
	dermal, non-sensitiz	zing
Specific target org single exposure	gan toxicity —	Based on the available information, the classification criteria are not fulfilled.
Specific target or repeated exposur		Toxicological data of complete product are not available. May cause damage to organs through prolonged or repeated exposure. Calculation method
	Substance	
	Ethylene glycol, CA	S: 107-21-1
	NOAEL, dermal, Do	og, 2200 mg/kg bw/day, adverse effect observed
		50 mg/kg bw/day, OECD 408, adverse effect observed
Mutagenicity	Substance	Based on the available information, the classification criteria are not fulfilled.
	Ethylene glycol, CA	
	in vitro, no adverse	effect observed
Reproduction toxicity		Based on the available information, the classification criteria are not fulfilled.
	Substance	
	potassium 2-ethylhe	exanoate, CAS: 3164-85-0
	NOAEL, Rat, 300 m	ng/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.
Information on o	nformation on other hazards	
Endocrine disrup	ting properties	No information available.
Endocrine disrupt	01 1	No information available. 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
Ethylene glycol, CAS: 107-21-1
LC50, (28d), fish, 1,5 g/L
LC50, (3d), fish, 72.86 g/L
EC50, (4d), Invertebrates, 3,536 - 13 g/L
EC50, (21d), Invertebrates, 33,911 g/L
EC50, (48h), Invertebrates, 100 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
1H-Indene-1,3(2H)-dione, 2-(2-quinolinyl)-, sulfonated, sodium salts, CAS: 95193-83-2
LC50, (48h), fish, 1000 mg/L

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	Biodegradable.

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

No information available.

12.7 Other adverse effects

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	
		Dispose of as hazardous waste. 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. Packaging that cannot be cleaned should be disposed of as for product.
	Waste no. (recommended)	150110* packaging containing residues of or contaminated by hazardous substances 150102 150104
SEC	TION 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 IMDG	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	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 IMDG	no
	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 (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)	
	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)	0	
15.2	15.2 Chemical safety assessment		
		not applicable	

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

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

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) Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

Modified position

none