# Ferdinand Bilstein GmbH + Co. KG

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SEC	TION 1: Identification of the subst	ance/mixture and of the company/undertaking	
1.1	Product identifier		
		Gear oil SAE 75W-90 (GL-4/5)	
		Article number: 170140, 170141, 170142	
1.2	Relevant identified uses of the se	ubstance or mixture and uses advised against	
1.2.1	I Relevant uses		
		Gearbox oil	
1.2.2	2 Uses advised against		
		None known.	
1.3	Details of the supplier of the safe	ety 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)	
850	CTION 2: Hazards identification	++3 (0)03-132+0 (2+1) (Liigiisii)	
JEC			
2.1	Classification of the substance of	or mixture [REGULATION (GB) CLP]	
		No classification.	
2.2	Label elements		
		The product is required to be labelled in accordance with regulation CLP.	
	Hazard pictograms	none	
	Signal word	none	
	Hazard statements	none	
	Precautionary statements	none	
	Special labelling	EUH210 Safety data sheet available on request. Contains: Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). EUH208 May produce an allergic reaction.	
2.3	Other hazards		
	Physico-chemical hazards	No particular hazards known.	
	Environmental hazards	Does not contain any PBT or vPvB substances. Contains no ingredients with endocrine-disrupting properties.	
	Other hazards	No particular hazards known.	
SEC	TION 3: Composition / Information	n on ingredients	
3.1	Substances		

## 3.1 Substances

not applicable

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### 3.2 Mixtures

### The product is a mixture.

Range [%]	Substance
1 - < 10	Lubricating oils (< 3% DMSO-Extract)
	CAS: 74869-22-0, EINECS/ELINCS: 278-012-2, EU-INDEX: 649-484-00-0
	GHS/CLP: Asp. Tox. 1: H304
1 - < 4.59	Polysulfides, di-tert-Bu
	CAS: 68937-96-2, EINECS/ELINCS: 273-103-3, Reg-No.: 01-2119540515-43-XXXX
	GHS/CLP: Skin Sens. 1: H317 - Aquatic Chronic 3: H412
	SCL [%]: >= 46: Skin Sens. 1B: H317
1 - < 2.5	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)
	EINECS/ELINCS: 931-384-6, Reg-No.: 01-2119493620-38
	GHS/CLP: Acute Tox. 4: H302 - Eye Dam. 1: H318 - Skin Sens. 1: H317 - Aquatic Chronic 2: H411
	SCL [%]: > 50: Eye Dam. 1: H318, >= 9.39: Skin Sens. 1B: H317, > 50: Eye Irrit. 2: H319
0.1 - < 1	Magnesium metaborate
	CAS: 13703-82-7, EINECS/ELINCS: 237-235-5, Reg-No.: 01-2120769073-53-XXXX
	GHS/CLP: Skin Sens. 1B: H317
	SCL [%]: > 15: Skin Sens. 1B: H317

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 and R-phrases: 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 plenty of 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. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

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

Allergic reactions

### 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 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) Sulphur oxides (SOx). Nitrogen oxides (NOx).

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5.3	Advice for firefighters	
		Do not inhale explosion and/or combustion gases. 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	e 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
		Take up with absorbent material (e.g. oil binder). Dispose of absorbed material in accordance within the regulations.
6.4	Reference to other sections	
		See SECTION 8+13
SEC	TION 7: Handling and storage	
7.1	Precautions for safe handling	
		No encoded management of used correctly
		No special measures necessary if used correctly.
		Use only in well-ventilated areas. Use solvent-resistant equipment.
		Use only in well-ventilated areas.
		Use only in well-ventilated areas. Use solvent-resistant equipment. Do not eat, drink or smoke when using this product.
		Use only in well-ventilated areas. Use solvent-resistant equipment. Do not eat, drink or smoke when using this product. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Use barrier skin cream.
		Use only in well-ventilated areas. Use solvent-resistant equipment. Do not eat, drink or smoke when using this product. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Use barrier skin cream. Cloths contaminated with product should not be kept in trouser pockets.
		Use only in well-ventilated areas. Use solvent-resistant equipment. Do not eat, drink or smoke when using this product. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Use barrier skin cream.
7.2	Conditions for safe storage, incl	Use only in well-ventilated areas. Use solvent-resistant equipment. Do not eat, drink or smoke when using this product. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Use barrier skin cream. Cloths contaminated with product should not be kept in trouser pockets. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace.
7.2	Conditions for safe storage, incl	Use only in well-ventilated areas. Use solvent-resistant equipment. Do not eat, drink or smoke when using this product. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Use barrier skin cream. Cloths contaminated with product should not be kept in trouser pockets. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace.
7.2	Conditions for safe storage, incl	Use only in well-ventilated areas. Use solvent-resistant equipment. Do not eat, drink or smoke when using this product. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Use barrier skin cream. Cloths contaminated with product should not be kept in trouser pockets. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. <b>Iuding any incompatibilities</b> Keep only in original container.
7.2	Conditions for safe storage, incl	Use only in well-ventilated areas. Use solvent-resistant equipment. Do not eat, drink or smoke when using this product. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Use barrier skin cream. Cloths contaminated with product should not be kept in trouser pockets. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. <b>Iuding any incompatibilities</b> Keep only in original container. Prevent penetration into the ground.
7.2	Conditions for safe storage, incl Specific end use(s)	Use only in well-ventilated areas. Use solvent-resistant equipment. Do not eat, drink or smoke when using this product. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Use barrier skin cream. Cloths contaminated with product should not be kept in trouser pockets. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. <b>Iuding any incompatibilities</b> Keep only in original container. Prevent penetration into the ground. Do not store together with oxidizing agents. 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)

not relevant

DNEL

PNEC

Substance
Polysulfides, di-tert-Bu, CAS: 68937-96-2
No DNEL values could be derived for the substance with respect to systemic effects.
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), CAS: -
Industrial, dermal, Long-term - systemic effects, 12.5 mg/kg bw/d (AF=120)
Industrial, inhalative, Long-term - systemic effects, 4.28 mg/m <sup>3</sup> (AF=30)
general population, oral, Long-term - systemic effects, 0.25 mg/kg bw/d (AF=600)
general population, dermal, Long-term - systemic effects, 6.25 mg/kg bw/d (AF=240)
general population, inhalative, Long-term - systemic effects, 1.09 mg/m3 (AF=60)
Magnesium metaborate, CAS: 13703-82-7
Industrial, dermal, Long-term - systemic effects, 7.78 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 5.49 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 0.28 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 0.278 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 0.82 mg/m <sup>3</sup>
Substance
Polysulfides, di-tert-Bu, CAS: 68937-96-2
There are no PNEC values established for the substance.
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), CAS: -
oral (food), 10 mg/kg dw (AF=300)
soil, 1.17 μg/kg dw
sediment (seawater), 1.29 µg/kg dw
sediment (freshwater), 12.9 µg/kg dw
sewage treatment plants (STP), 24.33 mg/L (AF=100)
seawater, 0.24 µg/L (AF=500)
freshwater, 2.4 µg/L (AF=50)
Magnesium metaborate, CAS: 13703-82-7
oral (food), 1.67 mg/kg food
soil, 0.247 mg/kg soil dw
sediment (seawater), 1.38 mg/kg sediment dw
sediment (freshwater), 1.38 mg/kg sediment dw
sewage treatment plants (STP), 100 mg/L
seawater, 0.05 mg/L
freshwater, 0.05 mg/L

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8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. General exposure limit for oil mist should be noted. 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, >120 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. Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin.
Respiratory protection	not applicable
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
Form	liquid
Color	dark yellow
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	No information available.
Flash point [°C]	202
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/cm <sup>3</sup> ]	0.86 (DIN 51757) (15 °C / 59,0 °F)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	immiscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	No information available.
Kinematic viscosity	119 mm²/s (40°C)
Relative vapour density	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature [°C]	not applicable
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

See SECTION 10.3.

### 10.2 Chemical stability

The product is stable under standard conditions.

### 10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

### 10.4 Conditions to avoid

No special measures necessary.

### 10.5 Incompatible materials

Strong oxidizing agent. Strong basic compounds 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

Substance
Polysulfides, di-tert-Bu, CAS: 68937-96-2
No information available.
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), CAS: -
LD50, oral, Rat, 2000 mg/kg
Magnesium metaborate, CAS: 13703-82-7
LD50, oral, Rat, >2000 mg/kg bw (OECD 420)

#### Acute dermal toxicity

Substance	
Polysulfides, di-tert-Bu, CAS: 68937-96-2	
No information available.	
Magnesium metaborate, CAS: 13703-82-7	
LD50, dermal, Rat, 2000 mg/kg bw	

#### Acute inhalational toxicity

Substance	
Polysulfides, di-tert-Bu, CAS: 68937-96-2	
No information available.	

Serious eye damage/irritation	Based on the available information, the classification criteria are not fulfilled. Non-irritant. Classification was carried out based on substance-specific concentration limits. The undiluted substance "931-384-6" is an irritant while the 50% formulation in mineral oil was not an irritant.	
Skin corrosion/irritation	Toxicological data of complete product are not available. No classification. Calculation method	
Respiratory or skin sensitisation	Non-sensitizing. On basis of test data May produce an allergic reaction.	
Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled.	
Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled.	
Substance		

Substance
Magnesium metaborate, CAS: 13703-82-7
NOAEL, oral, Rat, 125 mg/kg bw/day

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.
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.



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#### 11.2 Information on other hazards

Endocrine disrupting properties	Contains no ingredients with endocrine-disrupting properties.
Other information	none

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

### 12.1 Toxicity

Substance
Polysulfides, di-tert-Bu, CAS: 68937-96-2
EC50, (72h), Algae, 100 mg/L
EL50, (48h), Invertebrates, 63 mg/L
NOELR, (72h), Algae, 100 mg/L
NOELR, (48h), Invertebrates, 18 mg/L
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), CAS: -
LC50, (96h), fish, 24 mg/l
EC50, (48h), Daphnia magna, 91.4 mg/l
Magnesium metaborate, CAS: 13703-82-7
EL50, (72h), Pseudokirchneriella subcapitata, >50mg/l (OECD 201)
EL50, (24h), Daphnia magna, >50mg/l (OECD 202)
LL50, (96h), Oncorhynchus mykiss, >50mg/l (OECD 203)

#### 12.2 Persistence and degradability

Behaviour in environment compartments	
Behaviour in sewage plant	The product floats on the (waste) water. Can be separated out mechanically in purification plants.
Biological degradability	No information available.

### 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

Ecological data of complete product are not available. Do not discharge product unmonitored into the environment or into the drainage.

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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

	In according to RoHS! In according to RoHS! Disposal in an incineration plant in accordance with the regulations of the local authorities. Disposal in an incineration plant in accordance with the regulations of the local authorities.
Waste no. (recommended)	130206* 130206*
Contaminated packaging	
	Uncontaminated packaging may be taken for recycling.
	Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.
	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 150110* packaging containing residues of or contaminated by hazardous substances

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

14.1 U	JN	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	NO DANGEROUS GOODS
ADR/RID	

DANGEROUS GOODS
)

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

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

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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
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 t	to 8.
14.7	Maritime transport in bulk accordi	ng to IMO instruments

### not applicable

## **SECTION 15: Regulatory information**

15.1	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)	not relevant	

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15.2 Chemical safety as	ssessment For this product a chemical safety assessment has not been carried out.
SECTION 16: Other info	
16.1 Hazard statements	s (SECTION 3) H412 Harmful to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways.
16.2 Abbreviations and	acronyms:
	ADR = Accord européen relatif au transport international des marchandises Dangereuses RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses ADN = Accord européen relatif au transport international des 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 No Effect Level ECS0 = Median effective concentration ECB = European Chemicals Bureau EEC = European Chemicals Bureau EEC = European Inventory of Existing Commercial Chemical Substances ELS0 = Median effective loading ELINCS = European Inventory of Existing Commercial Chemical Substances ELS0 = Median effective loading ELINCS = European Inventory of Existing Commercial Chemical Substances ELS0 = 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 ICS0 = Inhibition concentration, 50% IMDDG = International Minifume Code for Dangerous Goods IUCLID = International Minifume Code for Dangerous Goods IUCLID = International Minifume Code for Dangerous Goods IUCLD = International Uniform Chemical Information Database IVIS = In vitro irritation score LCS0 = Lethal concentration, 50% LD50 = Median lethal loading LQ = Limited Quantities MARPOL = International Convention for the Prevention of Marine Pollution from Ships NOAEL = No Observed Adverse Effect Level NOCE = No Observed Adverse Effect Concentration REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
16.3 Other information	
Classification proce	dure
Modified position	SECTION 3 been added: Magnesium metaborate

SECTION 3 been added: Magnesium metaborate SECTION 11 been added: Contains no ingredients with endocrine-disrupting properties. SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties.

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