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SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1	1.1 Product identifier			
		febi 39070 - Gear oil Article number 39070, 39071		
1.2	Relevant identified uses of the s	ubstance or mixture and uses advised against		
1.2.1 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	.4 Emergency telephone number			
	Advisory body	+49 (0)89-19240 (24h) (english)		
SEC	TION 2: Hazards identification			
2.1	2.1 Classification of the substance or mixture			
		Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.		
2.2	Label elements			
		The product is classified and required to be labelled in accordance with EC-Directives		
	Hazard pictograms	none		
	Hazard statements	H412 Harmful to aquatic life with long lasting effects.		
	Precautionary statements	P273 Avoid release to the environment. 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.		
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.		

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SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

	Range [%] Substance		
	50 - < 100 Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract)		
	CAS: 64742-54-7, EINECS/ELINCS: 265-157-1, Reg-No.: 01-2119484627-25-XXXX		
	GHS/CLP: Asp. Tox. 1: H304		
	0,1 - < 1 Alkyl thiophosphites		
	EIN	NECS/ELINCS: 424-820-7, Reg-No.: 01-0000017126-75-xxxx	
	GHS/CLP: Skin Corr. 1B: H314 - Acute Tox. 4: H312 - Aquatic Chronic 1: H410		
	0,1 - < 1 amine, ethoxylated		
	EINECS/ELINCS: Polymer		
	GHS/CLP: Eye Dam. 1: H318 - Aquatic Chronic 2: H411		
	Comment on compon	Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%. For full text of H-statements: see SECTION 16.	
SEC	TION 4: First aid mea	asures	
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. Do not induce vomiting.	
4.2	Most important sym	nptoms and effects, both acute and delayed	
		Irritant effects	
4.3	Indication of any immediate medical attention and special treatment needed		
		Treat symptomatically. If swallowed or in the event of vomiting, risk of product entering the lungs. Forward this sheet to the doctor.	
SEC	SECTION 5: Fire-fighting measures		
5.1	Extinguishing medi	ia	
	Suitable extinguishing	g media Foam, dry powder, water spray jet, carbon dioxide.	
	Extinguishing media t be used		
5.2	Special hazards aris	sing from the substance or mixture	
		Risk of formation of toxic pyrolysis products.	
5.3	Advice for firefighte	ers	
	5	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.	

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SEC	CTION 6: Accidental release mease	ures	
6.1	Personal precautions, protective equipment and emergency procedures		
		Some risk of slipping due to 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	3 Methods and material for containment 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	CTION 7: Handling and storage		
7.1	1 Precautions for safe handling		
		Avoid formation of aerosols.	
		Use only in well-ventilated areas.	
		Use only in well-ventilated areas. The product is combustible.	
		-	
7.2	Conditions for safe storage, incl	The product is combustible. 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. 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, incl	The product is combustible. 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. 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, incl	The product is combustible. 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. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash before reuse. Iuding any incompatibilities Keep only in original container.	
7.2	Conditions for safe storage, incl	The product is combustible. 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. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash before reuse. Iuding any incompatibilities Keep only in original container. Prevent penetration into the ground.	
7.2	Conditions for safe storage, incl Specific end use(s)	 The product is combustible. 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. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash before reuse. Iuding any incompatibilities Keep only in original container. Prevent penetration into the ground. Do not store together with food and animal food/diet. Keep container in a well-ventilated place.	

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance
50 - < 100 Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract)	
	CAS: 64742-54-7, EINECS/ELINCS: 265-157-1, Reg-No.: 01-2119484627-25-XXXX
	Long-term exposure: 5 mg/m ³ , oil mist
	Short-term exposure (15-minute): 10 mg/m ³

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8.2	Exposure controls		
	Additional advice on system design	Ensure adequate ventilation on workstation.	
	Eye protection	Safety glasses.	
	Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. > 0,4mm: Nitrile rubber, >120 min (EN 374). > 0,4mm: butyl rubber, > 120 min (EN 374)	
	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	Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, combination filter A-P2.	
	Thermal hazards	No information available.	
	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

Form	liquid
Color	light yellow
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	210 (EN ISO 2592)(COC)
Flammability (solid, gas) [°C]	Not explosive.
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	0,849 (DIN 51757) (15 °C / 59,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	virtually insoluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	33,2 mm²/s 40°C (DIN 51562)
Relative vapour density determined in air	not determined
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

No hazardous reactions known.

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
50 - < 100 Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7	
	LD50, dermal, Rabbit: > 5000 mg/kg.
	LD50, oral, Rat: > 5000 mg/kg.
0,1 - < 1	Alkyl thiophosphites
	LD50, dermal, > 500 mg/kg.
	LD50, oral, Rat: > 2000 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	
	Toxicological data of c

Toxicological data of complete product are not available. No classification 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.

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
0,1 - < 1	Alkyl thiophosphites
	LC50, (96h), fish: 1,5 mg/l.

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12.2 Persistence and degradability

not determined
not determined
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

The product was classified on the basis of the calculation procedure of the preparation directive. Ecological data of complete product are not available. Do not discharge product unmonitored into the environment or into the drainage. 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. In according to RoHS!
Waste no. (recommended)	130205* mineral-based non-chlorinated engine, gear and lubricating oils
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* 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

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 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	1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830
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	no
- VOC (1999/13/CE)	0 %
15.2 Chemical safety assessment	
	not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H304 May be fatal if swallowed and enters airways.

H410 Very toxic to aquatic life with long lasting effects.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H411 Toxic to aquatic life with long lasting effects.

H318 Causes serious eye damage.

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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 Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

16.3 Other information

Classification procedure Modified position

none