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SEC	ECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1	Product identifier		
		febi 39070 - Gear oil Article number: 39070, 39071, 109672	
1.2	Relevant identified uses of the s	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 safety data sheet		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)	
SEC	SECTION 2: Hazards identification		
2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]		or mixture [REGULATION (EC) No 1272/2008]	
		No classification.	
2.2	Label elements		
		The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).	
	Hazard pictograms	none	
	Signal word	none	
	Hazard statements Precautionary statements	none	
	Special labelling	none EUH210 Safety data sheet available on request.	
		Contains: 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate. EUH208 May produce an allergic reaction.	
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.	
SEC	SECTION 3: Composition / Information on ingredients		
3.1	Substances		

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3.2 Mixtures

	The product is a mixture.			
	Range [%]	e [%] Substance		
	50 - < 100	0 Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract)		
			EINECS/ELINCS: 265-157-1, EU-INDEX: 649-467-00-8, Reg-No.: 01-2119484627-25-XXXX ox. 1: H304	
	0,1 - < 1	- < 1 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate		
	L	-	EINECS/ELINCS: 299-434-3	
		GHS/CLP: Skin Se	ens. 1: H317	
	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: see SECTION 16.	
SEC	TION 4: First aid	measures		
l.1	Description of fi	rst aid measures	6	
	General information	on	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 symptoms and effects, both acute and delayed			
4.3				
		,	Treat symptomatically. If swallowed or in the event of vomiting, risk of product entering the lungs. Forward this sheet to your doctor.	
SEC	TION 5: Fire-fight	ting measures		
5.1	Extinguishing m	nedia		
	Suitable extinguis	hing media	Foam, dry powder, water spray jet, carbon dioxide.	
	Extinguishing mee be used	dia that must not	Full water jet.	
5.2	Special hazards	arising from the	e substance or mixture	
			Risk of formation of toxic pyrolysis products.	
5.3	Advice for firefig	ghters		
			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: Accident	al release measu	Ires	

6.1 Personal precautions, protective equipment and emergency procedures

Some risk of slipping due to spillage of product. Forms slippery surfaces with water.

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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	ment 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	
		Avoid formation of aerosols. Use only in well-ventilated areas.
		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, including 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. 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)

Substance
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract)
CAS: 64742-54-7, EINECS/ELINCS: 265-157-1, EU-INDEX: 649-467-00-8, Reg-No.: 01-2119484627-25-XXXX
Long-term exposure: 5 mg/m ³ , oil mist
Short-term exposure (15-minute): 10 mg/m ³

DNEL

illates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-
strial, dermal, Long-term - systemic effects, 1 mg/kg bw/day,
strial, inhalative, Long-term - local effects, 5,6 mg/m ³ ,
strial, inhalative, Long-term - systemic effects, 2,7 mg/m ³ ,
eral population, oral, Long-term - systemic effects, 0,74 mg/kg bw/day,

PNEC

Substance		
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7		
oral (food), 9,33 mg/kg,		

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. > 0,4mm: Nitrile rubber, >120 min (EN 374-1/-2/-3). > 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. (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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Color	light 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]	210 (EN ISO 2592)(COC)
Flammability (solid, gas) [°C]	Not explosive.
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/ml]	0,84 (DIN 51757) (15 °C / 59,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	No information available.
Kinematic viscosity	33,2 mm²/s 40°C (DIN 51562)
Relative vapour density	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature	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

No hazardous reactions known.

10.4 Conditions to avoid

No special measures necessary.

10.5 Incompatible materials

Oxidizing agent Strong basic compounds Strong acids.

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10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Product ATE-mix, oral, > 5000 mg/kg bw,

Substance Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7 LD50, oral, Rat, > 5000 mg/kg,

Acute dermal toxicity

Product

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

Substance

Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7 LD50, dermal, Rabbit, > 2000 mg/kg,

Acute inhalational toxicity

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

Substance

Product

Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7

LC50, inhalative, Rat, 2,18 mg/l,

Serious eye damage/irritation Based on the available information, the classification criteria are not fulfilled.

Substance

Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7 No information available.,

Skin corrosion/irritation

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

Substance

Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7

No information available.

Respiratory or skin sensitisation

Based on the available information, the classification criteria are not fulfilled. May produce an allergic reaction. Calculation method

Substance

Substance		
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7		
No information available.,		

Specific target organ toxicity — single exposure

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

vhosnie	
	Substance

Substance		
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7		
No information available.,		

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Specific target organ toxicity -Based on the available information, the classification criteria are not fulfilled. repeated exposure Substance Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7 No information available. Mutagenicity Based on the available information, the classification criteria are not fulfilled. Substance Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7 No information available. **Reproduction toxicity** Based on the available information, the classification criteria are not fulfilled. Substance Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7 No information available. Carcinogenicity Based on the available information, the classification criteria are not fulfilled. Substance Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7 No information available. Aspiration hazard Based on the available information, the classification criteria are not fulfilled. On basis of test data 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. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. **SECTION 12: Ecological information**

12.1 Toxicity

Product

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

Substance Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7 EL50, (24h), Daphnia magna, > 10000 mg/l, NOELR, (14d), Oncorhynchus mykiss, >= 1000 mg/l, LL50, (96h), Pimephales promelas, >100 mg/l, NOEL, (72h), Pseudokirchneriella subcapitata, >= 100 mg/l, NOEL, (21d), Daphnia magna, 10 mg/l,

12.2 Persistence and degradability

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

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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

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.
	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

SECTION 14: Transport information

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

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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
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	io 8.

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

not applicable

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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).		
- Observe employment restrictions for people	no		
- VOC (2010/75/CE)	0 %		
15.2 Chemical safety assessment			
	not applicable		
SECTION 16: Other information			
16.1 Hazard statements (SECTION 3)			
	H317 May cause an allergic skin reaction. H304 May be fatal if swallowed and enters airways.		
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 EC50 = Median effective concentration EC6 = European Chemicals Bureau EC6 = European Chemicals Bureau EC7 = European Chemicals Bureau EC7 = European Inventory of Existing Commercial Chemical Substances EL50 = Median effective loading ELINCS = European Inventory of Existing Commercial Chemical Substances EL50 = Median effective loading ELINCS = European List of Notified Chemical Substances Em5 = 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 Uniform ChemicaL Information Database IVIS = In vitro irritation score LC50 = Lethal concentration, 50% LD50 = Median lethal doading 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 = Vediale Ordanic Concentration		

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16.3 Other information

Classification procedure Modified position

none