

Ferdinand Bilstein GmbH + Co. KG

Date printed 17.03.2022, Revision 17.03.2022

OLU	TION 1: Identification of the sub	ostance/mixture and of the company/undertaking	
1.1	1.1 Product identifier		
		febi 48441 Multipurpose Grease for NBR Rubber Components Article number: 48441	
1.2	Relevant identified uses of the	substance or mixture and uses advised against	
1.2.1	Relevant uses		
		Grease	
1.2.2 Uses advised against			
		None known.	
1.3	1.3 Details of the supplier of the safety 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	TION 2: Hazards identification		
2.1	Classification of the substance	e or mixture [REGULATION (GB) CLP]	
		No classification.	
2.2	Label elements		
		The product does not require a hazard warning label in accordance with regulation CLP.	
	Hazard pictograms	none	
	Signal word	none	
	Hazard statements	none	
	Precautionary statements	none	
2.3	Other hazards		
		none	
	Physico-chemical hazards	Combustible.	
	Human health dangers	High Pressure Applications. Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis. Used grease may contain harmful impurities.	
	Environmental hazards	Does not contain any PBT or vPvB substances.	
	Other hazards	Further hazards were not determined with the current level of knowledge.	

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable



Ferdinand Bilstein GmbH + Co. KG Date printed 17.03.2022, Revision 17.03.2022 Version 02. Supersedes version: 01 Page 2 / 10 3.2 Mixtures The product is a mixture. A lubricating grease containing highly-refined mineral oils and additives. Comment on component parts Contains less than 3% w/w DMSO-extract (only for mineral oils) Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%. **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 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. Most important symptoms and effects, both acute and delayed 4.2 Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea. Local necrosis is evidenced by delayed onset of pain and tissue damage a few hours following injection. Indication of any immediate medical attention and special treatment needed 4.3 Treat symptomatically. Forward this sheet to your doctor. High pressure injection injuries require prompt surgical inter-vention and possibly steroid therapy, to minimise tissue dam-age and loss of function. Because entry wounds are small and do not reflect the seri-ousness of the underlying damage, surgical exploration to determine the extent of involvement may be necessary. Local anaesthetics or hot soaks should be avoided because they can contribute to swelling, vasospasm and ischaemia. Prompt surgical decompression, debridement and evacuation of for-eign material should be performed under general anaesthet-ics, and wide exploration is essential. **SECTION 5: Fire-fighting measures** Extinguishing media 5.1 Suitable extinguishing media Carbon dioxide. Water spray jet. Dry powder. Foam. Full water jet. Extinguishing media that must not be used Special hazards arising from the substance or mixture 5.2 Risk of formation of toxic pyrolysis products. 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.



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SECTION 6: Accidental release measures			
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		
		Do not discharge into the drains/surface waters/groundwater. Prevent spread over a wide area (e.g. by containment or oil barriers).	
6.3	Methods and material for contain	ment and cleaning up	
		Take up mechanically. Dispose of absorbed material in accordance within the regulations.	
6.4	.4 Reference to other sections		
		See SECTION 8+13	
SEC	TION 7: Handling and storage		
7.1	7.1 Precautions for safe handling		
		Use only in well-ventilated areas. No special measures necessary if used correctly.	
		The product is combustible.	
		Wash hands before breaks and after work. Use barrier skin cream. Cloths contaminated with product should not be kept in trouser pockets. Do not eat, drink or smoke when using this product.	
7.2	2 Conditions for safe storage, including any incompatibilities		
		Keep only in original container.	
		Do not store together with oxidizing agents.	
		Keep container tightly closed. Keep away from frost. Keep in a cool place. Store in a dry place.	
7.3	Specific end use(s)		
		See product use, SECTION 1.2	

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

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Exposure controls	
Additional advice on system design	Ensure adequate ventilation on workstation. General exposure limit for oil mist should be noted.
Eye protection	If there is a risk of splashing: Safety glasses. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. > 0.4 mm Butyl rubber, >240 min (EN 374-1/-2/-3).
Skin protection	not applicable
Other	Avoid contact with eyes and skin.
Respiratory protection	Not required under normal conditions.
Thermal hazards	not applicable
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

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Physical state	pasty
Color	light brown
Odor	characteristic
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	No information available.
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	No information available.
Lower explosion limit	ca. 1 Vol.%
Upper explosion limit	ca. 10 Vol.%
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	< 0.0005 (20°C, 68°F)
Density [g/cm ³]	0.9(DIN 51757) (15 °C / 59,0 °F)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	> 6
Kinematic viscosity	No information available.
Relative vapour density	> 1
Evaporation speed	not applicable
Melting point [°C]	No information available.
Auto-ignition temperature	> 320 (608°F)
Decomposition temperature [°C]	No information available.
Particle characteristics	No information available.

9.2 Other information





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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 oxidizing agents.

10.4 Conditions to avoid

Strong heating. Sunlight

10.5 Incompatible materials

Strong oxidizing agent.

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

Produc	t	
LD50,	oral, Rat, > 5000 mg/kg bw	

Acute dermal toxicity

	Product		
	LD50, dermal, Rabbit, > 5000 mg/kg bw		
Acute inhalational	l toxicity		
Serious eye dama	ge/irritation	Slight irritant effect. Based on the available information, the classification criteria are not fulfilled.	
Skin corrosion/irr	itation	Slight irritant effect. Based on the available information, the classification criteria are not fulfilled.	
Respiratory or ski	n sensitisation	Based on the available information, the classification criteria are not fulfilled.	
Specific target org single exposure	gan toxicity —	Based on the available information, the classification criteria are not fulfilled.	
Specific target or repeated exposure		Based on the available information, the classification criteria are not fulfilled.	
Mutagenicity		No mutagenous properties. Based on the available information, the classification criteria are not fulfilled.	
Reproduction tox	icity	Based on the available information, the classification criteria are not fulfilled.	
Carcinogenicity		No cancerogenic properties known 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			
		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. Remarks: Used grease may contain harmful impurities that have accumulated during use. The concentration of such harmful impurities will depend on use and they may present risks to health and the environment on disposal. ALL used grease should be handled with caution and skin contact avoided as far as possible. Remarks: High pressure injection of product into the skin may lead to local necrosis if the prod-uct is not surgically removed.	
Information on o	other hazards		
Endocrine disrupt	ting properties	No information available.	

11.2

Endocrine disrupting properties	No information available.
Other information	none
SECTION 12: Ecological information	

12.1 Toxicity

Product	
EL50, Algae, > 100 mg/l	
LL50, Daphnia magna, > 100 mg/l	
LL50, fish, > 100 mg/l	



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12.2 Persistence and degradability

not determined
not determined
The product is not readily biodegradable.

12.3 Bioaccumulative potential

Contains components with the potential to bioaccumulate.

12.4 Mobility in soil

Product is immobilized by adsorption to soil particles.

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 product is insoluble in water. Do not discharge product unmonitored into the environment.

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)	120112* spent waxes and fats	
Contaminated packaging		
	Uncontaminated packaging may be taken for recycling. Uncontaminated packaging may be reused.	
Waste no. (recommended)	150110* packaging containing residues of or contaminated by hazardous substances 150102	



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SECTION 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	
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	



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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 (2022)	
	NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.	
	- Observe employment restrictions for people	not applicable	
	- VOC (2010/75/CE)	0 %	
15.2	Chemical safety assessment		

No information available.



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16.1 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

16.2 Other information

Classification procedure

Modified position

none