

**Ferdinand Bilstein GmbH + Co. KG**

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**1 Identification of the substance / preparation and of the company**

**Product:** febi 02615 hydraulic fluid  
**Article number:** 82615, 71615, 02615  
**Registration number:** not applicable  
**Use:** Hydraulics oil  
**Identified use:** none  
**Method of operation:** See product information.  
**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  
**Emergency phone:** +49 (0) 89-19240 (24h)  
**Responsible:** Loeschner@chemiebuero.de

**2 Hazards identification**

**Physico-chemical hazards:** See chapter 10.  
**Human health dangers:** If swallowed or in the event of vomiting, risk of product entering the lungs.  
**Environmental hazards:** The product/the substance has the Water Hazard Class 1.  
**Other hazards:** No particular hazards known.  
**Hazard symbols:** none  
**R-phrases:** none

**3 Composition / Information on ingredients**

**Comment on component parts:** No dangerous components.

**4 First aid measures**

**General information:** Change soaked clothing.  
**Inhalation:** Ensure supply of fresh air.  
In the event of symptoms seek for 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:** In case of contact with eyes rinse thoroughly and immediately with plenty of water and seek medical advice.  
**Ingestion:** Do not induce vomiting.  
Rinse out mouth and give plenty of water to drink.  
Supply with medical care.  
**Advice to doctor:** Treat symptomatically.

**5 Fire-fighting measures**

**Suitable extinguishing media:** Foam, dry powder, water spray jet, carbon dioxide.  
**Extinguishing media that must not be used:** Full water jet.  
**Special exposure hazards arising from the substance or preparation itself or combustion products:** Not combusted hydrocarbons.  
Unknown risk of formation of toxic pyrolysis products.  
**Special protective equipment for firefighters:** Do not inhale explosion and/or combustion gases.  
Use self-contained breathing apparatus.  
**Additional information:** Cool containers at risk with water spray jet.  
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

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**6 Accidental release measures**

- Personal precautions:** High risk of slipping due to leakage/spillage of product.  
Forms slippery surfaces with water.
- Environmental precautions:** Prevent spread over a wide area (e.g. by containment or oil barriers).  
Do not discharge into the drains/surface waters/groundwater.
- Methods for cleaning up:** Take up with absorbent material (e.g. general-purpose binder).  
Dispose of absorbed material in accordance within the regulations.

**7 Handling and storage**

- Advice on safe handling:** Avoid formation of aerosols.
- Advice on protection against fire and explosion:**  
No special measures necessary.
- Requirements for storage rooms and vessels:**  
Keep only in original container.  
Prevent penetration into the ground.
- Advice on storage compatibility:** Do not store together with food and animal food/diet.
- Further information on storage conditions:**  
Keep container tightly closed.  
Keep container in a well-ventilated place.

**8 Exposure controls / personal protection**

- Additional advice on system design:**  
Ensure adequate ventilation on workstation.
- Ingredients with occupational exposure limits to be monitored:**  
not applicable
- Respiratory protection:** Breathing apparatus in the event of aerosol or mist formation.  
Short term: filter apparatus, combination filter A-P1.
- Hand protection:** Nitrile, >480 min (EN 374).  
Neoprene, >480 min (EN 374).
- Eye protection:** Safety glasses.
- Skin protection:** Light protective clothing.
- General protective measures:** Avoid contact with eyes and skin.
- Hygiene measures:** Do not eat, drink, smoke or take drugs at work.  
Use barrier skin cream.  
Wash hands before breaks and after work.  
Cloths contaminated with product should not be kept in trouser pockets.
- Delimitation and monitoring of the environmental exposition:**  
not determined

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**9 Physical and chemical properties**

<b>Form:</b>	liquid
<b>Color:</b>	light yellow
<b>Odor:</b>	characteristic
<b>pH-value:</b>	not applicable
<b>pH-value [1%]:</b>	not applicable
<b>Boiling point [°C]:</b>	not determined
<b>Flash point [°C]:</b>	152 (Iso 2592)
<b>Flammability [°C]:</b>	not determined
<b>Lower explosion limit:</b>	not applicable
<b>Upper explosion limit:</b>	not applicable
<b>Oxidizing properties:</b>	no
<b>Vapour pressure [kPa]:</b>	not determined
<b>Density [g/ml]:</b>	0,88 (DIN 51757)
<b>Density at [°C]:</b>	15
<b>Bulk density [kg/m<sup>3</sup>]:</b>	not applicable
<b>Solubility in water:</b>	immiscible
<b>Partition coefficient [n-octanol/water]:</b>	not determined
<b>Viscosity:</b>	16 mm <sup>2</sup> /s (40°C) (DIN 51562)
<b>Relative vapour density determined in air:</b>	not determined
<b>Evaporation speed:</b>	not determined
<b>Melting point [°C]:</b>	not determined
<b>Autoignition temperature [°C]:</b>	not applicable
<b>Decomposition temperature:</b>	not determined

**10 Stability and reactivity**

<b>Hazardous reactions:</b>	Reactions with strong oxidizing agents.
<b>Hazardous decomposition products:</b>	No hazardous decomposition products known.

**11 Toxicological information**

<b>Acute oral toxicity:</b>	not determined
<b>Acute dermal toxicity:</b>	not determined
<b>Acute inhalational toxicity:</b>	not determined
<b>Irritant effect on eye:</b>	not determined
<b>Irritant effect on skin:</b>	not determined
<b>Sensitization:</b>	not determined
<b>Subacute toxicity:</b>	not determined
<b>Chronic toxicity:</b>	not determined
<b>Mutagenicity:</b>	not determined
<b>Reproduction toxicity:</b>	not determined
<b>Carcinogenicity:</b>	not determined
<b>Experiences made in practice:</b>	none
<b>General remarks:</b>	No classification on the basis of the calculation procedure of the preparation directive. Toxicological data are not available.

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**12 Ecological information**

<b>Fish toxicity:</b>	not determined
<b>Daphnia toxicity:</b>	not determined
<b>Behaviour in environment compartments:</b>	not determined
<b>Behaviour in sewage plant:</b>	not determined
<b>Bacteria toxicity:</b>	not determined
<b>Biological degradability:</b>	The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.
<b>COD:</b>	not determined
<b>BOD 5:</b>	not determined
<b>AOX-advice:</b>	not applicable
<b>2006/11/EC:</b>	yes
<b>General information:</b>	Ecological data are not available. No classification on the basis of the calculation procedure of the preparation directive.

**13 Disposal considerations**

<b>Product:</b>	Coordinate disposal with the disposal contractor/authorities if necessary. Dispose of as hazardous waste. In according to RoHS!
<b>Contaminated packaging:</b>	Untamminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.
<b>Waste no. (recommended):</b>	130110*

**14 Transport information**

<b>Classification according to ADR:</b>	NO DANGEROUS GOODS
- Classification Code:	
- Label:	
- ADR LQ	
- ADR 1.1.3.6 (8.6):	Transport category (tunnel restriction code): -
<b>Classification according to IMDG:</b>	NOT CLASSIFIED AS "DANGEROUS GOODS"
- EMS:	
- Label:	
- IMDG LQ:	
<b>Classification according to IATA:</b>	NOT CLASSIFIED AS "DANGEROUS GOODS"
- Label:	

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**15 Regulatory information**

<b>Exposure scenario:</b>	not applicable
<b>Chemical safety report:</b>	not applicable
<b>Labelling:</b>	The product does not require a hazard warning label in accordance with EC-directives.
<b>Hazard symbols:</b>	
	none
<b>R-phrases:</b>	none
<b>S-phrases:</b>	none
<b>Special labelling:</b>	none
<b>Authorisation, TITEL VII:</b>	not applicable
<b>Restrictions, TITEL VIII:</b>	not applicable
<b>EEC-REGULATIONS:</b>	1967/548 (2008/58, 30. ATP/ 31. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006.
<b>TRANSPORT-REGULATIONS:</b>	DOT-Classification, ADR (2009); IMDG-Code (34. Amdt.); IATA-DGR (2009).
<b>NATIONAL REGULATIONS</b>	EH40/2005 Workplace exposure limits with amendments October 2007.

**16 Other informations**

<b>Observe employment restrictions for people:</b>	
	no
<b>VOC (1999/13/CE):</b>	0%
<b>Customs Tariff:</b>	not determined