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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