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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 29.06.2016 / 0006  
Replacing version dated / version: 19.01.2011 / 0005  
Valid from: 29.06.2016  
PDF print date: 30.06.2016  
PAG 100 240 ml  
Art.: 8FX 351 213-051

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

**PAG 100 240 ml**  
**Art.: 8FX 351 213-051**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses of the substance or mixture:**

Lubricant

**Uses advised against:**

No information available at present.

#### 1.3 Details of the supplier of the safety data sheet

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Behr Hella Service GmbH, Dr.-Manfred-Behr-Str. 1, 74523 Schwäbisch Hall, Germany  
Phone: +49 (0) 7907 9446 483 31, Fax: +49 (0) 7907 9446 483 73

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone number

**Emergency information services / official advisory body:**

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**Telephone number of the company in case of emergencies:**

+49 (0) 7907 9446 483 31

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) 1272/2008 (CLP)**

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

#### 2.2 Label elements

**Labeling according to Regulation (EC) 1272/2008 (CLP)**

Not applicable

#### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

### SECTION 3: Composition/information on ingredients

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### 3.1 Substance

n.a.

### 3.2 Mixture

|  |     |
|--|-----|
| --   |     |
| <b>Registration number (REACH)</b>                                 | --  |
| <b>Index</b>   | -   |
| <b>EINECS, ELINCS, NLP</b>   | -   |
| <b>CAS</b>   | -   |
| <b>content %</b>   |     |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP)</b> | --- |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.

Call doctor immediately - have Data Sheet available.

### 4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

### 4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

CO2

Dry extinguisher

Alcohol resistant foam

Water jet spray

#### Unsuitable extinguishing media

High volume water jet

### 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Toxic gases

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

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Dispose of contaminated extinction water according to official regulations.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air.  
Avoid contact with eyes or skin.  
Do not carry cleaning cloths soaked in product in trouser pockets.  
If applicable, caution - risk of slipping.

### 6.2 Environmental precautions

If leakage occurs, dam up.  
Resolve leaks if this possible without risk.  
Prevent surface and ground-water infiltration, as well as ground penetration.  
If accidental entry into drainage system occurs, inform responsible authorities.

### 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

## SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Ensure good ventilation.  
Avoid aerosol formation.  
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.  
Observe directions on label and instructions for use.  
Do not heat to temperatures close to flash point.  
Electrical equipment must be suitable for temperature class T 2 (Germany).

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.  
Wash hands before breaks and at end of work.  
Keep away from food, drink and animal feedingstuffs.  
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

### 7.2 Conditions for safe storage, including any incompatibilities

Not to be stored in gangways or stair wells.  
Store product closed and only in original packing.  
Protect against moisture and store closed.

### 7.3 Specific end use(s)

No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

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### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

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If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.  
Applies only if maximum permissible exposure values are listed here.

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles (EN 166) with side protection, with danger of projections.

Skin protection - Hand protection:

Protective gloves in butyl rubber (EN 374).

Minimum layer thickness in mm:

0,7

Permeation time (penetration time) in minutes:

480

With short-term contact:

Protective nitrile gloves (EN 374)

Minimum layer thickness in mm:

0,4

Permeation time (penetration time) in minutes:

30

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

Normally not necessary.

If fumes build up, use suitable breathing mask.

Filter A2 P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:

Liquid

Colour:

Light yellow

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|  |  |
|--|--|
| Odour:                                   | Characteristic                             |
| Odour threshold:                         | Not determined                             |
| pH-value:                                | 5-7 (10 %, 20°C)                           |
| Melting point/freezing point:            | -45 °C (DIN 51583, Setting point )         |
| Initial boiling point and boiling range: | Not determined                             |
| Flash point:                             | 240 °C (DIN 51376 (Cleveland, open cup))   |
| Evaporation rate:                        | Not determined                             |
| Flammability (solid, gas):               | Not determined                             |
| Lower explosive limit:                   | Not determined                             |
| Upper explosive limit:                   | Not determined                             |
| Vapour pressure:                         | Not determined                             |
| Vapour density (air = 1):                | n.a.                                       |
| Density:                                 | ~0,978 g/cm <sup>3</sup> (50°C, DIN 51757) |
| Bulk density:                            | n.a.                                       |
| Solubility(ies):                         | Not determined                             |
| Water solubility:                        | Insoluble                                  |
| Partition coefficient (n-octanol/water): | n.a.                                       |
| Auto-ignition temperature:               | 365 °C (DIN 51794)                         |
| Decomposition temperature:               | Not determined                             |
| Viscosity:                               | ~80 mm <sup>2</sup> /s (50°C, DIN 51562)   |
| Explosive properties:                    | Not determined                             |
| Oxidising properties:                    | n.a.                                       |
| <b>9.2 Other information</b>             |  |
| Miscibility:                             | Not determined                             |
| Fat solubility / solvent:                | Not determined                             |
| Conductivity:                            | Not determined                             |
| Surface tension:                         | Not determined                             |
| Solvents content:                        | Not determined                             |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

### 10.4 Conditions to avoid

Strong heat

Decomposition:

T > 220°C

Protect from humidity.

Product is hygroscopic.

### 10.5 Incompatible materials

No dangerous reactions are known.

### 10.6 Hazardous decomposition products

No decomposition when used as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

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| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
|-------------------|----------|-------|------|----------|-------------|-------|
|-------------------|----------|-------|------|----------|-------------|-------|

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|   |  |  |  |  |  |  |        |
|---|--|--|--|--|--|--|--------|
| Acute toxicity, by oral route:                                |  |  |  |  |  |  | n.d.a. |
| Acute toxicity, by dermal route:                              |  |  |  |  |  |  | n.d.a. |
| Acute toxicity, by inhalation:                                |  |  |  |  |  |  | n.d.a. |
| Skin corrosion/irritation:                                    |  |  |  |  |  |  | n.d.a. |
| Serious eye damage/irritation:                                |  |  |  |  |  |  | n.d.a. |
| Respiratory or skin sensitisation:                            |  |  |  |  |  |  | n.d.a. |
| Germ cell mutagenicity:                                       |  |  |  |  |  |  | n.d.a. |
| Carcinogenicity:  |  |  |  |  |  |  | n.d.a. |
| Reproductive toxicity:  |  |  |  |  |  |  | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE):   |  |  |  |  |  |  | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): |  |  |  |  |  |  | n.d.a. |
| Aspiration hazard:  |  |  |  |  |  |  | n.d.a. |
| Symptoms:   |  |  |  |  |  |  | n.d.a. |

## SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

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| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism | Test method       | Notes                                     |
|--|----------|------|-------|------|----------|-------------------|---|
| 12.1. Toxicity to fish:                  |          |      |       |      |          |                   | n.d.a.                                    |
| 12.1. Toxicity to daphnia:               |          |      |       |      |          |                   | n.d.a.                                    |
| 12.1. Toxicity to algae:                 |          |      |       |      |          |                   | n.d.a.                                    |
| 12.2. Persistence and degradability:     |          |      | <20   | %    |          | Zahn-Wellens-Test | Not readily biodegradable                 |
| 12.3. Bioaccumulative potential:         |          |      |       |      |          |                   | n.d.a.                                    |
| 12.4. Mobility in soil:                  |          |      |       |      |          |                   | n.d.a.                                    |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |          |                   | n.d.a.                                    |
| 12.6. Other adverse effects:             |          |      |       |      |          |                   | n.d.a.                                    |
| Other information:                       | AOX      |      |       |      |          |                   | According to the recipe, contains no AOX. |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of.  
 EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

13 02 08 other engine, gear and lubricating oils

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Recommendation:  
 Sewage disposal shall be discouraged.  
 Pay attention to local and national official regulations.  
 E.g. suitable incineration plant.

**For contaminated packing material**

Pay attention to local and national official regulations.  
 15 01 02 plastic packaging  
 15 01 04 metallic packaging  
 Empty container completely.  
 Uncontaminated packaging can be recycled.  
 Dispose of packaging that cannot be cleaned in the same manner as the substance.

**SECTION 14: Transport information**

**General statements**

|  |                |
|--|----------------|
| 14.1. UN number:                           | n.a.           |
| <b>Transport by road/by rail (ADR/RID)</b> |                |
| 14.2. UN proper shipping name:             |                |
| 14.3. Transport hazard class(es):          | n.a.           |
| 14.4. Packing group:                       | n.a.           |
| Classification code:                       | n.a.           |
| LQ (ADR 2015):                             | n.a.           |
| 14.5. Environmental hazards:               | Not applicable |
| Tunnel restriction code:                   |                |

**Transport by sea (IMDG-code)**

|                                   |                |
|-----------------------------------|----------------|
| 14.2. UN proper shipping name:    |                |
| 14.3. Transport hazard class(es): | n.a.           |
| 14.4. Packing group:              | n.a.           |
| Marine Pollutant:                 | n.a.           |
| 14.5. Environmental hazards:      | Not applicable |

**Transport by air (IATA)**

|                                   |                |
|-----------------------------------|----------------|
| 14.2. UN proper shipping name:    |                |
| 14.3. Transport hazard class(es): | n.a.           |
| 14.4. Packing group:              | n.a.           |
| 14.5. Environmental hazards:      | Not applicable |

**14.6. Special precautions for user**

Unless specified otherwise, general measures for safe transport must be followed.

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

Non-dangerous material according to Transport Regulations.

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

For classification and labelling see Section 2.  
 Observe restrictions: n.a.  
 General hygiene measures for the handling of chemicals are applicable.  
 Directive 2010/75/EU (VOC): 0 %

**15.2 Chemical safety assessment**

A chemical safety assessment is not provided for mixtures.

**SECTION 16: Other information**

Revised sections: 1 - 16



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### **Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):**

Not applicable

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

### **Any abbreviations and acronyms used in this document:**

AC Article Categories

acc., acc. to according, according to

ACGIH American Conference of Governmental Industrial Hygienists

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BHT Butylhydroxytoluol (= 2,6-Di-*t*-butyl-4-methyl-phenol)

BMGV Biological monitoring guidance value (EH40, UK)

BOD Biochemical oxygen demand

BSEF Bromine Science and Environmental Forum

bw body weight

CAS Chemical Abstracts Service

CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids

CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPAC Collaborative International Pesticides Analytical Council

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

COD Chemical oxygen demand

CTFA Cosmetic, Toiletry, and Fragrance Association

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

DT50 Dwell Time - 50% reduction of start concentration

DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EC European Community

ECHA European Chemicals Agency

EEA European Economic Area

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ERC Environmental Release Categories

ES Exposure scenario



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etc. et cetera  
 EU European Union  
 EWC European Waste Catalogue  
 Fax. Fax number  
 gen. general  
 GHS Globally Harmonized System of Classification and Labelling of Chemicals  
 GWP Global warming potential  
 HET-CAM Hen's Egg Test - Chorionallantoic Membrane  
 HGWP Halocarbon Global Warming Potential  
 IARC International Agency for Research on Cancer  
 IATA International Air Transport Association  
 IBC Intermediate Bulk Container  
 IBC (Code) International Bulk Chemical (Code)  
 IC Inhibitory concentration  
 IMDG-code International Maritime Code for Dangerous Goods  
 incl. including, inclusive  
 IUCLID International Uniform Chemical Information Database  
 LC lethal concentration  
 LC50 lethal concentration 50 percent kill  
 LCLo lowest published lethal concentration  
 LD Lethal Dose of a chemical  
 LD50 Lethal Dose, 50% kill  
 LDLo Lethal Dose Low  
 LOAEL Lowest Observed Adverse Effect Level  
 LOEC Lowest Observed Effect Concentration  
 LOEL Lowest Observed Effect Level  
 LQ Limited Quantities  
 MARPOL International Convention for the Prevention of Marine Pollution from Ships  
 n.a. not applicable  
 n.av. not available  
 n.c. not checked  
 n.d.a. no data available  
 NIOSH National Institute of Occupational Safety and Health (United States of America)  
 NOAEC No Observed Adverse Effective Concentration  
 NOAEL No Observed Adverse Effect Level  
 NOEC No Observed Effect Concentration  
 NOEL No Observed Effect Level  
 ODP Ozone Depletion Potential  
 OECD Organisation for Economic Co-operation and Development  
 org. organic  
 PAH polycyclic aromatic hydrocarbon  
 PBT persistent, bioaccumulative and toxic  
 PC Chemical product category  
 PE Polyethylene  
 PNEC Predicted No Effect Concentration  
 POCP Photochemical ozone creation potential  
 ppm parts per million  
 PROC Process category  
 PTFE Polytetrafluorethylene  
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)  
 REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.  
 RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)  
 SADT Self-Accelerating Decomposition Temperature  
 SAR Structure Activity Relationship

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SU Sector of use  
SVHC Substances of Very High Concern  
Tel. Telephone  
ThOD Theoretical oxygen demand  
TOC Total organic carbon  
TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)  
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods  
VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))  
VOC Volatile organic compounds  
vPvB very persistent and very bioaccumulative  
WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).  
WHO World Health Organization  
wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by:

**Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90**

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