

GB

1 / 6

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revision: 18.05.2009 Replaces the version of: 24.03.2005 PDF date: 18.05.2009
 PAG ISO 150 250 ml 250 ml Art. Nr.: 8FX 351 212-051

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

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

PAG ISO 150 250 ml 250 ml
Art. Nr.: 8FX 351 212-051

Use of the substance/preparation

Kältemaschinenöl

Company/undertaking identification

Behr Hella Service GmbH, Dr.-Manfred-Behr-Str. 1, D-74523 Schwäbisch Hall
 Telephone +49 (0) 7907 9446 373 31, Fax +49 (0) 7907 9446 373 79

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

Emergency telephone

Advisory office in case of poisoning:

Tel.:
 +49 228 / 19240

Telephone number of the company in case of emergencies:

Tel. +49 (0) 7907 9446 373 31

2. HAZARDS IDENTIFICATION

To people

See point 11 and 15.
 Preparation is not classified as hazardous in the sense of directive 1999/45/EC.

To the environment

See point 12.
 n.av.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Polyglycols

Chemical name	Symbol	R-phrases	EINECS, ELINCS
content %	Registration number (ECHA)	DNEL	PNEC

Tris(methylphenyl)phosphate			
1 -< 2,5	Xn/N	21/22-51-53	215-548-8

For complete wording of the R-phrases, refer to point 16.

4. FIRST AID MEASURES

4.1 Inhalation

Remove person from danger area.
 Supply person with fresh air and consult doctor according to symptoms.

GB

2 / 6

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4.2 Eye contact

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

4.3 Skin contact

Wash thoroughly with soap and copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

4.4 Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

Give water to drink.

4.5 Special resources necessary for first aid

Indications for the physician:

Symptomatic treatment

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

CO₂

Dry extinguisher

Alcohol resistant foam

Cool container at risk with water.

5.2 Extinguishing media which shall not be used for safety reasons

High volume water jet

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:

Oxides of carbon

Irritating vapours

Toxic pyrolysis products.

5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary

5.5 Further information

Dispose of contaminated extinction water according to official regulations.

6. ACCIDENTAL RELEASE MEASURES

Refer to point 13. and for personal protection refer to point 8.

6.1 Personal precautions

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.

Prevent surface and ground-water infiltration, as well as ground penetration.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods for cleaning up

Collect using absorbant material (e.g. Universal binding medium), and dispose of according to point 13.

7. HANDLING AND STORAGE

7.1 Handling

Tips for safe handling:

See point 6.1

Ensure good ventilation.

Avoid aerosol formation.

GB

3 / 6

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Wash hands before breaks and at end of work.
 Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
 General hygiene measures for the handling of chemicals are applicable.
 Observe directions on label and instructions for use.
 Do not heat to temperatures close to flash point.

7.2. Storage

Requirements for storage rooms and containers:

Not to be stored in gangways or stair wells.
 Store product closed and only in original packing.
 Suitable container:

Steel

Special storage conditions:

See point 10
 Protect against moisture and store closed.
 Protect from direct sunlight and warming.
 Only store at temperatures from 15°C to 35°C
 Stability during storage:
 min. 24 months.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values

8.2 Exposure controls

8.2.1 Occupational exposure controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.
 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.
 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.
 Respiratory protection: Normally not necessary.
 If fumes build up, use suitable breathing mask.
 Filter A P 3 (EN 14387)
 Hand protection: Chemical resistant protective gloves (EN 374).
 If applicable
 Protective Neopren gloves (EN 374).
 Protective nitrile gloves (EN 374)
 Protective hand cream recommended.
 Eye protection: Tight fitting protective goggles with side protection (EN 166).
 Skin protection: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.
 Selection made for preparations according to the best available knowledge and information on the ingredients.
 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 preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.2 Environmental exposure controls

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GB

4 / 6

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Colourless
Odour:	Characteristic
pH-value undiluted:	n.av.
Boiling point/boiling range (°C):	> 200
Melting point/melting range (°C):	< -40 (Pourpoint)
Flash point (°C):	225 COC
Minimum limit of explosion:	n.a.
Maximum limit of explosion:	n.a.
Vapour pressure:	< 5 mm Hg (20°C)
Density (g/ml):	1,029 (15°C)
Water solubility:	Insoluble
Vapour density (air = 1):	> 1
Viscosity:	133 cSt (40°C)

10. STABILITY AND REACTIVITY

Conditions to avoid

See point 7
 Stable when handled and stored correctly.
 Strong heat
 Protect from humidity.

Materials to avoid

See point 7
 Avoid contact with strong oxidizing agents.

Hazardous decomposition products

See point 5.3

11. TOXICOLOGICAL INFORMATION

Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg):	n.av.
Inhalation, LC50 rat inhal.(mg/l/4h):	n.av.
Skin contact, LD50 rat dermal (mg/kg):	n.av.
Eye contact:	n.av.

Delayed and chronic effects

Sensitization:	n.c.
Carcinogenicity:	n.c.
Mutagenicity:	n.c.
Reproductive toxicity:	n.c.
Narcosis:	n.c.

Further information

No classification according to calculation procedure.
 The following may occur:
 Irritation of the eyes
 Skin irritation possible with prolonged contact.
 With oil mist formation:
 Irritation of the respiratory tract
 Ingestion:
 Irritation of the stomach
 Gastrointestinal disturbances

12. ECOLOGICAL INFORMATION

Water hazard class (Germany):

2

GB

5 / 6

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Self classification:	Yes (VwVwS)
Persistence and degradability:	
Biodegradable (80%/28d MITI-Test) *	
Behaviour in sewage plants:	k.D.v.
AOX:	
According to the recipe, contains no AOX.	
Aquatic toxicity:	n.av.
Ecological toxicity:	n.av.
* Tris(methylphenyl)phosphate	

13. DISPOSAL CONSIDERATIONS

13.1. for the material / preparation / residue

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. (2001/118/EC, 2001/119/EC, 2001/573/EC)

13 02 06 synthetic engine, gear and lubricating oils
 Recommendation:

Pay attention to local and national official regulations
 E.g. dispose at suitable refuse site.
 E.g. suitable incineration plant.

13.2 for contaminated packing material

See point 13.1
 Pay attention to local and national official regulations
 15 01 01 paper and cardboard 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.

14. TRANSPORT INFORMATION

General statements

UN-Number: n.a.

Road/Rail-transport (ADR/RID)

Class/packing group: n.a.
 Classification code: n.a.
 LQ: n.a.

Transport by sea

IMDG-code: n.a. (class/packing group)
 Marine Pollutant: n.a.

Transport by air

IATA: n.a. (class/secondary danger/packing group)

Additional information:

Non-dangerous material according to Transport Regulations.

15. REGULATORY INFORMATION

Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)

Symbols: Not applicable
 Indications of danger: ---
 R-phrases:

S-phrases:

Additions:
 Safety data sheet available for professional user on request.

GB

6 / 6

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Observe restrictions: n.a.
 VOC 1999/13/EC ---

16. OTHER INFORMATION

These details refer to the product as it is delivered.

Storage class VCI (Germany): 10
 Revised points: 1 - 16 (REACH)

The following phrases represent the prescribed R-phrases for the ingredients (designated in point 3).

21/22 Harmful in contact with skin and if swallowed.

51 Toxic to aquatic organisms.

53 May cause long-term adverse effects in the aquatic environment.

Legend:

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked

WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40

AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)

VbF = Regulations for flammable liquids (Austria)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

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:

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