

Sicherheitsdatenblatt gemäß Verordnung (EG) 2015/830

Version 2.1, Datum: 25.06.2024

Vorherige Version: 2.0.; 21.06.2021

Erste Version: 16.08.2018

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Seite 1 von 7

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Trade Name	Bactofin Fuel Additive
Supplier	Wagner Spezialschmierstoffe GmbH & Co. KG Speckbrodi 8, D – 86759 Wechingen Tel. +49 (0)9085-96009-0 E-mail: wagner@wagner-german-oil.com www.wagner-german-oil.com
Responsible Division	Product Safety Tel. +49 9085-96009-10
Emergency Telephone Information Centre Specialising in Symptoms of Poisoning	Tel. +49 (0)9085 96009-0 (8:30 - 16:30) (Deutschland) +43 1 406 43 43 (Österreich)

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

Use: Fuel additive

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Asp. Tox. 1; H304 / Skin Irrit. 2; H315 / Eye Irrit. 2; H319 / STOT SE 3; H336 / Aquatic Chronic 3; H412

### 2.2 Label elements

Classification according to 1272/2008/EC: Yes.

Applicable Exemptions: No.

Signal word(s): Danger

Component(s): contains, Solvent naphtha (mineral oil), heavy arom.

Distillates (mineral oil), hydrotreated light

Hazard pictograms:



#### H - Phrases:

H304: May be fatal if swallowed and enters airways.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H336: May cause drowsiness or dizziness.

H412: Harmful to aquatic life with long lasting effects.

#### P - Phrases:

P 102: Keep out of reach of children.

P101: If medical advice is needed, have product container or label at hand.

P 260: Do not breathe dust/fume/gas/mist/vapours/spray.

P308+P311: IF exposed or concerned: If you feel unwell, call a POISON CENTER or doctor/physician.

P233: Keep container tightly closed.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P310: Immediately call a POISON CENTER/ doctor.

P262: Do not get in eyes, on skin, or on clothing.

P273: Avoid release to the environment.

P403+P235: Store in a well-ventilated place. Keep cool.

P 501: Dispose of contents/container at hazardous or special waste collection point.

Additional Markings: tactile warning of danger, child resistant fastenings

The above-mentioned labelling is valid for distribution to private consumer/industrial user.

### 2.3 Other hazards

This mixture contains no substances which are assessed to be PBT or vPvB. In use, may form flammable/explosive vapour-air mixture. If exposed to high temperatures, container may burst.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

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### 3.2 Mixtures

Sicherheitsdatenblatt gemäß Verordnung (EG) 2015/830

Version 2.1, Datum: 25.06.2024

Vorherige Version: 2.0.; 21.06.2021

Erste Version: 16.08.2018

Druckdatum: 25.06.2024

Seite 2 von 7

Chemical Characterisation: Mixture on mineral oil basis.

**Ingredients:**

Material	CAS - No.	Index - No.	EEC - No.	REACH-No.	Symbol/H-phrases	m% - range
<b>Solvent naphtha (mineral oil), heavy arom.</b>	64742-94-5	(649-424-00-3)	265-198-5	n.av.	Aquatic Chronic 2; H411 / Asp. Tox. 1; H304 / STOT SE 3; H336	10 – 25%
<b>Distillates (mineral oil), hydrotreated light</b>	64742-47-8	(649-422-00-2)	265-149-8	n.av.	Asp. Tox. 1; H304	5 - 15%
<b>1,2,4-trimethylbenzene</b>	95-63-6	601-043-00-3	202-436-9	01-2119472135-42-xxxx	Flam. Liq. 3; H226 / Acute Tox. 4 *; H332 / Eye Irrit. 2; H319 / STOT SE 3; H335 / Skin Irrit. 2; H315 / Aquatic Chronic 2; H411	1 - 5%
<b>Naphtha</b>	91-20-3	601-052-00-2	202-049-5	n.av.	Carc. 2; H351 / Acute Tox. 4; H302 / Aquatic Acute 1; H400 / Aquatic Chronic 1; H410	0,1 - 1%
<b>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromates</b>	246538-78-3	n.av.	920-901-0	n.av.	Asp. Tox. 1; H304 / EUH066	5 – 10%
<b>C11-12-Isoalkane</b>	246538-76-1	n.av.	918-167-1	n.av.	Flam. Liq. 3; H226 / Asp. Tox. 1; H304	5 - 15%
<b>Potassium-1,2-bis(2-ethylhexyloxy)ethan sulfonate</b>	7491-09-0	n.av.	231-308-5	n.av.	Skin Irrit. 2; H315 / Eye Irrit. 2; H319	10 – 20%
<b>Distillates (mineral oil), hydrotreated light</b>	64742-47-8	649-422-00-2	265-149-8	n.av.	Asp. Tox. 1; H304	1 – 10%
<b>(2-methoxymethylethoxy)-propanol</b>	34590-94-8	n.av.	252-104-2	01-2119450011-60-xxxx	n.av.	10 – 30%
<b>Organometallic iron compound</b>	n.av.	n.av.	479-710-1	n.av.	STOT RE 2; H373 / Aquatic Chronic 4; H413	1 – 5%

Text of R-/H- phrases: see section 16

m%-range:  $x - y \triangleq x \geq - y$

**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

**4.1.1 Inhalation**

Move to fresh air in case of accidental inhalation of vapours or decomposition products. If symptoms persist, call a physician.

**4.1.2 Skin Contact**

Wash off with warm water and soap. Remove and wash contaminated clothing before re-use. In the case of skin irritation or allergic reactions see a physician.

**4.1.3 Eye Contact**

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

**4.1.4 Ingestion**

Call a physician immediately. Do not induce vomiting. Rinse mouth.

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

Symptoms of overexposure may be headache, dizziness, tiredness, palpitation, low blood pressure, nausea and vomiting. Aspiration may cause pulmonary oedema and pneumonitis.

Continuous exposure may cause skin dryness and dermatitis. Causes skin irritation. Causes serious eye irritation.

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

Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung oedema or pneumonia.

Subsequent monitoring for pneumonia and lung oedema. Treat symptomatically.

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### 5.1.1 Suitable Extinguishing Media

Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam.

#### 5.1.2 Extinguishing Media to Avoid

High volume water jet.

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

In the event of fire the following can be released: Carbon oxides, sulphure oxides. Risk of explosion if heated under confinement. Container may burst.

### 5.3 Advice for firefighters

#### 5.3.1 Special Protective Equipment

Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

#### 5.3.2 Additional Information

In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## 6. ACCIDENTAL RELEASE MEASURES

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

See chapter 8.2.2. Contaminated surfaces will be extremely slippery. Keep away from ignition source – Do not smoke.

### 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

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

Prevent spreading over a wide area (e.g. by containment or oil barriers). Soak up with oil absorbent material. Shovel into suitable container for disposal.

### 6.4 Reference to other sections

None.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### 7.1.1 Precautions for Safe Handling

Avoid contact with skin and eyes. Remove and wash contaminated clothing before re-use. When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Do not port contaminated cleaning rags in pockets. Contaminated equipment (brushes, rags) must be cleaned immediately with water. Do not breathe vapours or spray mist. Avoid formation of aerosol.

#### 7.1.2 Precautions in Case of Fire and Explosion

Keep away from sources of ignition - No smoking. Do not use sparking tools. Take measures to prevent the build-up of electrostatic charge. Do not burn, or use a cutting torch on, the empty drum. Risk of explosion if heated under confinement.

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

#### 7.2.1 Storage Instructions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Keep away from heat. Keep away from direct sunlight. Do not store at temperatures over 60°C.

#### 7.2.2 Store away from

Do not store together with oxidizing agents, strong acids and strong bases.

#### 7.2.3 Further Information on Storage Conditions

Avoid subsoil penetration.

Sicherheitsdatenblatt gemäß Verordnung (EG) 2015/830

Version 2.1, Datum: 25.06.2024

Vorherige Version: 2.0.; 21.06.2021

Erste Version: 16.08.2018

Druckdatum: 25.06.2024

Seite 4 von 7

### 7.3 Specific end use(s)

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Material

1,2,4-Trimethylbenzene

Naphtha

C11-12-Isoalkanes

(2-Methoxymethylethoxy)propanol

#### Limit Value

MAC:20 ppm | 100 mg/m<sup>3</sup>, TWA: 20 ppm | 100 mg/m<sup>3</sup>

MAC: 0,1 ppm | 0,5 E mg/m<sup>3</sup>

600 mg/m<sup>3</sup>

MAC: 50 ppm | 310 mg/m<sup>3</sup>, TWA: 50 ppm | 308 mg/m<sup>3</sup>

MAC are taken from TRGS 900.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Provide appropriate exhaust ventilation at machinery.

#### 8.2.2 Individual protection measures

##### Respiratory Protection:

Breathing apparatus needed only when aerosol or mist is formed. Respirator with filter A2P2

##### Hand Protection:

Use protective skin cream before handling the product. Solvent-resistant gloves: nitrile rubber (0.4 mm), viton (0.4 mm). Break through time > 8 h.

As the product is a preparation of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain,duration of contact).

##### Eye Protection:

Safety glasses

##### Skin Protection:

Long sleeved clothing

##### Further Information:

Observe wearing time limits.

#### 8.2.3 Environmental exposure controls

Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Form	liquid
Colour	yellow brown
Odour	characteristic
Odour threshold	n.av.
pH-value, undiluted	n.ap.
pH-value, 1% aqueous solution	n.ap.
Boiling point / Boiling range (°C)	n.av.
Melting point / Melting range (°C)	n.av.
Flash point (°C)	71, closed cup
Flammability (EEC A10/A13)	n.av.
Ignition temperature (°C)	n.av.
Autoflammability (EEC A16)	None.
Oxidising properties	None
Explosion hazard	None
Explosion limits (Vol.%) lower	n.av.
upper	n.av.
Vapour pressure/Vapour density (Air = 1)	n.av./n.av.
Density (g/ml)	0,91
Solubility in water	practically insoluble
Partition coefficient, n-Octanol / Water	n.av.
Viscosity	10,38 mm <sup>2</sup> /s (20°C)
Solvent content (m%)	Not relevant
Thermal decomposition (°C)	n.av.
Evaporation rate	n.av.

### 9.2 Other information

n.av.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

None.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

At high temperatures: Risk of explosion if heated under confinement.

### 10.4 Conditions to avoid

Protect from frost, heat and sunlight. Keep away from sources of ignition and heat.

### 10.5 Incompatible materials

Incompatible with strong acids and bases, oxidizing agents.

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed. To avoid thermal decomposition, do not overheat.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Toxicity

Inhalation	n.av.
Ingestion	n.av.
Skin Contact:	n.av.
Irritation / corrosion (to skin)	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation
Sensitisation respiratory system/skin	None.
Mutagenicity	n.av.
Carcinogenicity	n.av.
Toxic to reproduction	n.av.
Specific Target Organ Systemic Toxicity (single exposure)	n.av.
Aspiration hazard	May be fatal if swallowed and enters airways.

#### Practical Experience

n.av.

### 11.2 Practical Experience

Observations relevant for classification: None.

Further observations

Prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Classification of the preparation has been done by calculation in accordance with the calculation methods.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

We have no quantitative data concerning the ecological effects of this product.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Solvent naphtha (mineral oil), heavy arom.

EC50/72 h/alga = 3 mg / l

EC50/48 h/daphnia = 10 mg / l

LC50/96 h/trout = 1.6 mg / l

### 12.2 Persistence and degradability

No data available for the product itself.

Solvent Inaphtha (mineral oil), heavy arom.: readily biodegradable (69% after 28 days) (OECD 301F)

### 12.3 Bioaccumulative potential

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### 12.4 Mobility in soil

n.av.

Sicherheitsdatenblatt gemäß Verordnung (EG) 2015/830

Version 2.1, Datum: 25.06.2024

Vorherige Version: 2.0.; 21.06.2021

Erste Version: 16.08.2018

Druckdatum: 25.06.2024

Seite 6 von 7

## 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria.

## 12.6 Other adverse effects

COD-Value, mg/g: n.av.  
 BOD5-Value, mg/g: n.av.  
 AOX-Remarks: Not applicable.  
 Significant Components: Hydrocarbons  
 Other adverse effects: Not applicable.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Recommendation: Waste - Code - No.

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.  
 In addition, comply with the regional authorities.

### 13.2 Contaminated Packaging

Recommendation: Wash with suitable cleaner. Otherwise as described under Residues.  
 Safe Handling: As described under Residues.

## 14. TRANSPORT INFORMATION

14.1	<b>ADR UN Number</b>	<b>IMDG</b>	<b>IATA</b>
No dangerous goods in the sense of the above-mentioned regulation.			
14.2.	<b>UN proper shipping name</b>		
14.3	<b>Transport hazard class(es)</b>		
14.4	<b>Packing group</b>		
14.5	<b>Environmental hazards</b>		
14.6	<b>Special precautions for user</b>		
	Transport-category: Classification Code: Hazard - No.: LQ:		Packing Instructions (Passenger) Packing Instructions (Cargo)
14.7	<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>		

## 15. REGULATORY INFORMATION

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

#### 15.1.1 Information about limitation of use

Employment restrictions concerning young persons must be observed.  
 Employment restrictions concerning women of child-bearing age must be observed.

#### 15.1.2 Observe retention obligation according to § 8 (6) Ordinance on Hazardous Substances

Yes.

#### 15.1.3 Decree to be applied in case of technical fault

Yes.

#### 15.1.4 Technical instructions air

Klasse Ziffer Anteil m%

#### 15.1.5 Water hazard class

Water hazard class 2 (Self-assessment): hazardous for water

#### 15.1.6 Storage class

10

#### 15.1.7 Observe regulations of TRGS 510

No.

**15.1.8 Observe regulations of TRG 300**

No.

**15.1.9 Observe regulations of WRMG**

No.

**15.1.10 Observe other regulations**

Waste Oils Regulation

**15.2 Chemical safety assessment**

None.

**16. OTHER INFORMATION**

**H – phrases from chapter 3**

EUH066: Repeated exposure may cause skin dryness or cracking.

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H410: Very toxic to aquatic life with long lasting effects.

H411: Toxic to aquatic life with long lasting effects.

H413: May cause long lasting harmful effects to aquatic life.

This datasheet has been compiled in accordance with EU regulation 2015/830.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

**Issued by**

Product Safety Division

**Issued on**

August 16, 2018