

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 07.09.2010

Revision: 07.09.2010

1 Identification of substance:

- **Product details:**
- **Trade name:** Haftgrund Verdünnung
- **Article number:** 301563-1
- **Application of the substance / the preparation** Solvents
- **Manufacturer/Supplier:**
 Bertold Oberle OHG
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 D-75236 Kämpfelbach-Ersingen
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2 Hazards identification

- **Hazard designation:**



Xn Harmful

- **Information pertaining to particular dangers for man and environment**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- R 10 Flammable.
- R 20/21 Harmful by inhalation and in contact with skin.
- R 36 Irritating to eyes.

- **Classification system**

The classification was made according to the EC-lists, latest edition, company and literature data have also been used.

- **GHS label elements**

**Warning**

H226 - Flammable liquid and vapour.

**Warning**

- H332 - Harmful if inhaled.
- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation.

- **Prevention:**

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.

- **Response:**

- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P321 Specific treatment (see on this label).

(Contd. on page 2)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 07.09.2010

Revision: 07.09.2010

Trade name: Haftgrund Verdünnung

(Contd. of page 1)

- **Disposal:**














P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

- **Chemical characterization** Solvent-mix

- **Description:** Mixture of the substances listed below and harmless substances.

- **Dangerous components:**

CAS: 123-42-2 EINECS: 204-626-7	4-hydroxy-4-methylpentan-2-one  Xi; R 36 Warning:  3.3/2	50-75%
CAS: 1330-20-7 EINECS: 215-535-7	xylene, mixed isomers, pure  Xn,  Xi; R 10-20/21-38 Warning:  2.6/3;  3.1.D/4, 3.1.I/4, 3.2/2	10-20%
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene  Xn,  F; R 11-20 Danger:  2.6/2 Warning:  3.1.I/4	5-10%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate  Xi; R 10-36 Warning:  2.6/3;  3.3/2	1- 5%

- **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **General information**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation** Supply fresh air and call for doctor for safety reasons.

- **After skin contact**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

- **After swallowing** In case of persistent symptoms consult doctor.

5 Fire fighting measures

- **Suitable extinguishing agents** CO₂, sand, extinguishing powder. Do not use water.

- **For safety reasons unsuitable extinguishing agents** Water.

- **Special hazards caused by the material, its products of combustion or resulting gases:**

In case of fire harmful gases can be released.

- **Protective equipment:** Put on breathing apparatus.

- **Additional information** Cool endangered containers with water spray jet.

6 Accidental release measures

- **Person-related safety precautions:**

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

- **Measures for environmental protection:** No special measures required.

(Contd. on page 3)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 07.09.2010

Revision: 07.09.2010

Trade name: Haftgrund Verdünnung

(Contd. of page 2)

Measures for cleaning/collecting:

- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Dispose of contaminated material as waste according to item 13.
- Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents

7 Handling and storage

Handling
Information for safe handling:

- Store in cool, dry place in tightly closed containers.
- Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:

- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.

Storage

- Requirements to be met by storerooms and containers:** No special requirements.
- Information about storage in one common storage facility:** Not required.
- Further information about storage conditions:** Keep container tightly sealed.

8 Exposure controls and personal protection

- Additional information about design of technical systems:** No further data; see item 7.

Components with limit values that require monitoring at the workplace:
123-42-2 4-hydroxy-4-methylpentan-2-one

WEL	Short-term value: 362 mg/m ³ , 75 ppm
	Long-term value: 241 mg/m ³ , 50 ppm

1330-20-7 xylene, mixed isomers, pure

WEL	Short-term value: 441 mg/m ³ , 100 ppm
	Long-term value: 220 mg/m ³ , 50 ppm
	Sk; BMGV

100-41-4 ethylbenzene

WEL	Short-term value: 552 mg/m ³ , 125 ppm
	Long-term value: 441 mg/m ³ , 100 ppm

108-65-6 2-methoxy-1-methylethyl acetate

WEL	Short-term value: 548 mg/m ³ , 100 ppm
	Long-term value: 274 mg/m ³ , 50 ppm
	Sk

- Additional information:** The lists that were valid during the compilation were used as basis.

Personal protective equipment
General protective and hygienic measures

- Keep away from foodstuffs, beverages and food.
- Take off immediately all contaminated clothing
- Wash hands during breaks and at the end of the work.
- Avoid contact with the eyes and skin.

Breathing equipment:

- In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Protection of hands:

- Protective gloves.
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 4)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 07.09.2010

Revision: 07.09.2010

Trade name: Haftgrund Verdünnung

(Contd. of page 3)

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Tightly sealed safety glasses.

- **Body protection:** suitable clothing

9 Physical and chemical properties:

- **General Information**

Form:	Fluid
Colour:	Clear
Odour:	Characteristic

- **Change in condition**

Melting point/Melting range: Not determined
Boiling point/Boiling range: 137 °C

- **Flash point:** 32 °C

- **Ignition temperature:** 500 °C

- **Self-inflammability:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.

- **Explosion limits:**

Lower:	1.1 Vol %
Upper:	8.1 Vol %

- **Vapour pressure at 20 °C:** 5 mbar

- **Specific gravity at 20 °C:** 0.9 g/cm³

- **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

- **Materials to be avoided:**

- **Dangerous reactions** Reacts with strong oxidizing agents

- **Dangerous products of decomposition:**

At high temperatures dangerous decomposition products like carbon dioxide, carbon monoxide, fume, nitrogen oxides can be formed.

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(Contd. on page 5)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 07.09.2010

Revision: 07.09.2010

Trade name: Haftgrund Verdünnung

(Contd. of page 4)

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

123-42-2 4-hydroxy-4-methylpentan-2-one

Oral	LD50	4000 mg/kg (Ratte)
Dermal	LD50	13630 mg/kg (rab)

1330-20-7 xylene, mixed isomers, pure

Oral	LD50	8700 mg/kg (Ratte)
Dermal	LD50	2000 mg/kg (Ratte)
Inhalative	LC50/4 h	6350 mg/l (Ratte)

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** Irritant effect.

- **Sensitization:** No sensitizing effect known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

12 Ecological information:

- **Additional ecological information:**

- **General notes:**

Water hazard class 2 (German Regulation) (Self-classification): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

13 Disposal considerations

- **Product:**

- **Recommendation** Must be specially treated under adherence to official regulations.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID-GGVS/E Class:** 3 (F1) Flammable liquids.

- **Kemler Number:** 30

- **UN-Number:** 1263

- **Packaging group:** III

- **Label** 3

(Contd. on page 6)

Safety Data Sheet

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Revision: 07.09.2010

Trade name: Haftgrund Verdünnung

(Contd. of page 5)

- **Designation of goods:** 1263 PAINT RELATED MATERIAL
- **Tunnel restriction code** D/E

- **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1263
- **Label** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-E
- **Marine pollutant:** -
- **Proper shipping name:** PAINT RELATED MATERIAL

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1263
- **Label** 3
- **Packaging group:** III
- **Proper shipping name:** PAINT RELATED MATERIAL

- **UN "Model Regulation":** UN1263, PAINT RELATED MATERIAL, 3, III

15 Regulatory information

- **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials

- **Code letter and hazard designation of product:**



Xn Harmful

- **Hazard-determining components of labelling:**

xylene, mixed isomers, pure

- **Risk phrases:**

- 10 Flammable.
- 20/21 Harmful by inhalation and in contact with skin.
- 36 Irritating to eyes.

- **Safety phrases:**

- 9 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe fumes/aerosol.
- 25 Avoid contact with eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 36/37 Wear suitable protective clothing and gloves.
- 43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
- 60 This material and its container must be disposed of as hazardous waste.

(Contd. on page 7)

Safety Data Sheet

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Printing date 07.09.2010

Revision: 07.09.2010

Trade name: Haftgrund Verdünnung

(Contd. of page 6)

· National regulations

Class	Share in %
II	22.0
III	78.0

· Water hazard class:

Water hazard class 2 (German Regulation) (Self-classification): hazardous for water.

16 Other information:

The information contained herein is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant R-phrases

- 10 Flammable.
- 11 Highly flammable.
- 20 Harmful by inhalation.
- 20/21 Harmful by inhalation and in contact with skin.
- 36 Irritating to eyes.
- 38 Irritating to skin.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organization
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent

· * Data compared to the previous version altered.

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