

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Härter für Zweikomponentenspezialspachtel**  
**Article number: TSPACHG****1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Relevant uses**

Hardener

**1.2.2 Uses advised against**

None known.

**1.3 Details of the supplier of the safety data sheet****Company**Max Frank GmbH & Co. KG  
Mitterweg 1  
94339 Leiblfing / GERMANY  
Phone +49 (0)9427 189-234  
Fax +49 (0)9427 189-275  
Homepage [www.maxfrank.com](http://www.maxfrank.com)  
E-mail [info@maxfrank.de](mailto:info@maxfrank.de)**Address enquiries to****Technical information**[info@maxfrank.de](mailto:info@maxfrank.de)**Safety Data Sheet**[sicherheitsdatenblatt@maxfrank.de](mailto:sicherheitsdatenblatt@maxfrank.de)**1.4 Emergency telephone number****Advisory body**

+49 (0)89-19240 (24h) (English)

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture [REGULATION (GB) CLP]**Org. Perox. E: H242 Heating may cause a fire.  
Eye Irrit. 2: H319 Causes serious eye irritation.  
Skin Sens. 1: H317 May cause an allergic skin reaction.  
Aquatic Acute 1: H400 Very toxic to aquatic life.  
Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects.

## 2.2 Label elements

### Hazard pictograms



### Signal word

WARNING

### Hazard statements

H242 Heating may cause a fire.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.

### Precautionary statements

P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P220 Keep away from reducing agents, heavy metal compounds, acids and alkalis.  
P273 Avoid release to the environment.  
P280 Wear protective gloves / eye protection / face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333+P313 If skin irritation or rash occurs: Get medical advice / attention.  
P410 Protect from sunlight.  
P411+P235 Store at temperatures not exceeding 25 °C. Keep cool.  
P501 Dispose of contents/container in accordance with local/national regulation.

## 2.3 Other hazards

### Environmental hazards

Does not contain any PBT or vPvB substances.

### Other hazards

Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
25 - 50	Dibenzoyl peroxide
	CAS: 94-36-0, EINECS/ELINCS: 202-327-6, EU-INDEX: 617-008-00-0, Reg-No.: 01-2119511472-50-XXXX
	GHS/CLP: Org. Perox. B: H241 - Skin Sens. 1: H317 - Eye Irrit. 2: H319 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410,
	M-Factor (acute): 10, M-Factor (chronic): 10

### Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.  
For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

### 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	In case of contact with skin wash off immediately with soap and water. If skin irritation or rash occurs: Get medical advice/attention.
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	Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Consult a doctor immediately.

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

Irritant effects  
Allergic reactions

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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media	Foam, dry powder, water spray jet, carbon dioxide.
Extinguishing media that must not be used	Full water jet.

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

Risk of formation of toxic pyrolysis products.  
Has a fire-promoting effect due to release of oxygen.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.  
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

## SECTION 6: Accidental release measures

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

Ensure adequate ventilation.  
Use personal protective clothing.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.  
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

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

Take up residues with absorbent material (e.g. sand).  
Dispose of absorbed material in accordance within the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with eyes and skin. Use personal protective equipment.  
 Use only in well-ventilated areas.  
 Keep away from all sources of ignition - Refrain from smoking.  
 Do not eat, drink, smoke or take drugs at work.  
 Take off contaminated clothing and wash before reuse.  
 After worktime and before work breaks the affected skin areas must be thoroughly cleaned.  
 Use barrier skin cream.

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

Keep only in original container.  
 Prevent penetration into the ground.  
 Do not store with alkalies.  
 Do not store together with acids.  
 Do not store together with food and animal food/diet.  
 Do not store with combustible and/or organic materials.  
 Keep container in a well-ventilated place.  
 Keep container tightly closed.  
 Protect from heat/overheating and from sun.  
 Keep in a cool place. Store in a dry place.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

#### Ingredients with occupational exposure limits to be monitored (GB)

Substance
Dibenzoyl peroxide
CAS: 94-36-0, EINECS/ELINCS: 202-327-6, EU-INDEX: 617-008-00-0, Reg-No.: 01-2119511472-50-XXXX
Long-term exposure: 5 mg/m <sup>3</sup>

#### DNEL

Substance
Dibenzoyl peroxide, CAS: 94-36-0
Industrial, dermal, Long-term - systemic effects, 13.3 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 39 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 2 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 2.9 mg/m <sup>3</sup>

#### PNEC

Substance
Dibenzoyl peroxide, CAS: 94-36-0
soil, 0.0758 mg/kg dw
sediment (seawater), 0.001 mg/kg
sediment (freshwater), 0.013 mg/kg
sewage treatment plants (STP), 0.35 mg/l
freshwater, 0.02 ug/L
seawater, 0.002 ug/L

## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	0.7 mm; Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	light protective clothing
<b>Other</b>	Avoid contact with eyes and skin. 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.
<b>Respiratory protection</b>	If workplace limit values are exceeded or if there is insufficient ventilation: Short term: filter apparatus, combination filter A-P1. (DIN EN 14387)
<b>Thermal hazards</b>	none
<b>Delimitation and monitoring of the environmental exposition</b>	See SECTION 6+7.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	pasty
<b>Color</b>	white
<b>Odor</b>	characteristic
<b>Odour threshold</b>	not applicable
<b>pH-value</b>	4 - 5
<b>pH-value [1%]</b>	not determined
<b>Boiling point [°C]</b>	not determined
<b>Flash point [°C]</b>	not applicable
<b>Flammability (solid, gas) [°C]</b>	not determined
<b>Lower explosion limit</b>	not applicable
<b>Upper explosion limit</b>	not applicable
<b>Oxidising properties</b>	yes
<b>Vapour pressure/gas pressure [kPa]</b>	0.23
<b>Density [g/cm³]</b>	1.14 - 1.2 (20 °C / 68,0 °F)
<b>Relative density</b>	not determined
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	partially miscible
<b>Solubility other solvents</b>	No information available.
<b>Partition coefficient [n-octanol/water]</b>	not determined
<b>Kinematic viscosity</b>	not determined
<b>Relative vapour density</b>	not determined
<b>Evaporation speed</b>	not determined
<b>Melting point [°C]</b>	not determined
<b>Auto-ignition temperature</b>	not determined
<b>Decomposition temperature [°C]</b>	SADT 50°C
<b>Particle characteristics</b>	not applicable

### 9.2 Other information

none

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

Heating may cause a fire.

### **10.2 Chemical stability**

Stable under normal ambient conditions (ambient temperature).

### **10.3 Possibility of hazardous reactions**

Reactions with alcohols, amines, aqueous acids and alkalies.

Reactions with reducing agents.

As oxidizing agent, attacks organic substances such as wood, paper, fats.

Reactions with various metals.

### **10.4 Conditions to avoid**

Warming

### **10.5 Incompatible materials**

See SECTION 10.3.

### **10.6 Hazardous decomposition products**

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity

Product
oral, Based on the available information, the classification criteria are not fulfilled.
Substance
Dibenzoyl peroxide, CAS: 94-36-0
LD50, oral, Rat, 5000 mg/kg

#### Acute dermal toxicity

Product
dermal, Based on the available information, the classification criteria are not fulfilled.

#### Acute inhalational toxicity

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.

#### Serious eye damage/irritation

Irritant  
Based on the available information, the classification criteria are fulfilled.  
Calculation method

Substance
Dibenzoyl peroxide, CAS: 94-36-0
Eye, Rabbit, In vivo study, irritant

#### Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance
Dibenzoyl peroxide, CAS: 94-36-0
dermal, Rabbit, OECD 404, non-irritating

#### Respiratory or skin sensitisation

Sensitizing.  
Based on the available information, the classification criteria are fulfilled.  
Calculation method

Substance
Dibenzoyl peroxide, CAS: 94-36-0
dermal, mouse, OECD 429, sensitising

#### Specific target organ toxicity — single exposure

Based on the available information, the classification criteria are not fulfilled.

#### Specific target organ toxicity — repeated exposure

Based on the available information, the classification criteria are not fulfilled.

Substance
Dibenzoyl peroxide, CAS: 94-36-0
NOAEL, dermal, mouse, 833 mg/kg bw/day, In vivo study, no adverse effect observed
NOAEL, oral, Rat, 200 mg/kg bw/day, In vivo study, adverse effect observed

#### Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

#### Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled.

Substance
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Dibenzoyl peroxide, CAS: 94-36-0

NOAEL, oral, Rat, 300 mg/kg bw/day, OECD 414, adverse effect observed, Effects on developmental toxicity,

NOAEL, oral, Rat, 500 mg/kg bw/day, OECD 422, adverse effect observed, Effects on fertility,

**Carcinogenicity**

Based on the available information, the classification criteria are not fulfilled.

Substance

Dibenzoyl peroxide, CAS: 94-36-0

dermal, Rat, OECD 451, no adverse effect observed

oral, Rat, In vivo study, no adverse effect observed

**Aspiration hazard**

Based on the available information, the classification criteria are not fulfilled.

**General remarks**

Toxicological data of complete product are not available.

**11.2 Information on other hazards**
**Endocrine disrupting properties**

Contains no ingredients with endocrine-disrupting properties.

**Other information**

none

**SECTION 12: Ecological information**
**12.1 Toxicity**

Substance

Dibenzoyl peroxide, CAS: 94-36-0

LC50, (96h), Oncorhynchus mykiss, 0.0602 mg/l (OECD 203)

LC50, (96h), fish, 1.7-2.4 mg/l (OECD 203)

EC50, (48h), Daphnia magna, 2.91 mg/l (OECD 202)

EC50, (48h), Daphnia magna, 0.11 mg/l (OECD 202)

EC50, (72h), Pseudokirchneriella subcapitata, 0.0711 mg/l (OECD 201)

NOEC, (48h), Daphnia magna, 1.99 mg/l

**12.2 Persistence and degradability**
**Behaviour in environment compartments**

not determined

**Behaviour in sewage plant**

not determined

**Biological degradability**

not determined

**12.3 Bioaccumulative potential**

Accumulation in organisms is not expected.

**12.4 Mobility in soil**

The product is mobile in an aqueous environment.

**12.5 Results of PBT and vPvB assessment**

Based on all available information not to be classified as PBT or vPvB respectively.

**12.6 Endocrine disrupting properties**

Contains no ingredients with endocrine-disrupting properties.



## 12.7 Other adverse effects

Ecological data of complete product are not available.  
Do not discharge product unmonitored into the environment.

## 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

Dispose of as hazardous waste.  
For recycling, consult manufacturer.

#### Waste no. (recommended)

160903\*

#### 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\* packaging containing residues of or contaminated by hazardous substances

## SECTION 14: Transport information

### 14.1 UN number or ID number

Transport by land according to ADR/RID 3108

Inland navigation (ADN) 3108

Marine transport in accordance with IMDG 3108

Air transport in accordance with IATA 3108

## 14.2 UN proper shipping name

**Transport by land according to ADR/RID** Organic Peroxide type E, solid, Dibenzoyl peroxide

- Classification Code

P1

- Label



- ADR LQ

0,5 kg

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 2 (D)

**Inland navigation (ADN)**

Organic Peroxide type E, solid, Dibenzoyl peroxide

- Classification Code

P1

- Label



**Marine transport in accordance with IMDG**

Organic peroxide Type E, solid, Dibenzoyl peroxide

- EMS

F-J, S-R

- Label



- IMDG LQ

0,5 kg

**Air transport in accordance with IATA**

Organic Peroxide Type E, solid, Dibenzoyl peroxide

- Label



## 14.3 Transport hazard class(es)

**Transport by land according to ADR/RID**

5.2 (N)

**Inland navigation (ADN)**

5.2 (N)

**Marine transport in accordance with IMDG**

5.2

**Air transport in accordance with IATA** 5.2

## 14.4 Packing group

**Transport by land according to ADR/RID**

not applicable

**Inland navigation (ADN)**

not applicable

**Marine transport in accordance with IMDG**

not applicable

**Air transport in accordance with IATA**

not applicable

#### 14.5 Environmental hazards

Transport by land according to ADR/RID yes

Inland navigation (ADN) yes

Marine transport in accordance with IMDG MARINE POLLUTANT

Air transport in accordance with IATA yes

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Maritime transport in bulk according to IMO instruments

not applicable

### SECTION 15: Regulatory information

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

**EEC-REGULATIONS** 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

**TRANSPORT-REGULATIONS** ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)

**NATIONAL REGULATIONS (GB):** EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.

- Observe employment restrictions for people Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

- VOC (2010/75/CE) 0 %

#### 15.2 Chemical safety assessment

not applicable

### SECTION 16: Other information

#### 16.1 Hazard statements (SECTION 3)

H410 Very toxic to aquatic life with long lasting effects.  
H400 Very toxic to aquatic life.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H241 Heating may cause a fire or explosion.

## 16.2 Abbreviations and acronyms:

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  
 ATE = acute toxicity estimate  
 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  
 EL50 = Median effective loading  
 ELINCS = European List of Notified Chemical Substances  
 EmS = Emergency Schedules  
 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  
 IVIS = In vitro irritation score  
 LC50 = Lethal concentration, 50%  
 LD50 = Median lethal dose  
 LC0 = lethal concentration, 0%  
 LOAEL = lowest-observed-adverse-effect level  
 LL50 = Median lethal loading  
 LQ = Limited Quantities  
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
 NOAEL = No Observed Adverse Effect Level  
 NOEC = No Observed Effect Concentration  
 PBT = Persistent, Bioaccumulative and Toxic substance  
 PNEC = Predicted No-Effect Concentration  
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
 STP = Sewage Treatment Plant  
 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

## 16.3 Other information

### Classification procedure

Org. Perox. E: H242 Heating may cause a fire. (Calculation method)  
 Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)  
 Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)  
 Aquatic Acute 1: H400 Very toxic to aquatic life. (Calculation method)  
 Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects. (Calculation method)

### Modified position

none