






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

- **Product details**
- **Trade name:** Dinitrol 6064 BP-Härter für Spachtel
- **Application of the substance / the preparation** *Hardening agent/ Curing agent*
- **Manufacturer/Supplier:**  
Dinol GmbH  
Pyrmonter Strasse 76  
D-32676 Lügde  
Tel: +49 5281 9829 80  
Fax: +49 5281 9829 860  
E-mail: thomas.suerig@dinol.com
- **Further information obtainable from:** *Research & Development*
- **Information in case of emergency:** *Giftnotruf Berlin +49(0)30 30686 790 Beratung in Deutsch und Englisch.*

## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  -  *Xi; Irritant*  
R36: *Irritating to eyes.*
  -  *Xi; Sensitising*  
R43: *May cause sensitisation by skin contact.*
  -  *O; Oxidising*  
R7: *May cause fire.*
- **Information concerning particular hazards for human 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.*
- **Classification system:**  
*The classification is according to the latest editions of the EU-lists, and extended by company and literature data.*

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- **Label elements**
- **Labelling according to EU guidelines:**  
*The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.*
- **Code letter and hazard designation of product:**
  -   *Xi Irritant*  
*O Oxidising*
- **Hazard-determining components of labelling:**  
*dibenzoyl peroxide*
- **Risk phrases:**  
7 *May cause fire.*  
36 *Irritating to eyes.*  
43 *May cause sensitisation by skin contact.*
- **Safety phrases:**  
2 *Keep out of the reach of children.*

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- 3/7      *Keep container tightly closed in a cool place.*  
 14      *Keep away from reducing agents, heavy metal compounds, acids and alkalis.*  
 36/37/39 *Wear suitable protective clothing, gloves and eye/face protection.*  
 46      *If swallowed, seek medical advice immediately and show this container or label.*  
 56      *Dispose of this material and its container to hazardous or special waste collection point.*

### 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 94-36-0	dibenzoyl peroxide	25-<50%
EINECS: 202-327-6	☒ Xi R36; ☒ Xi R43; ☒ E R3; ☒ O R7	
CAS: 9038-95-3	Polyalkylenglykolmonobutylether	1-<5%
	☒ Xn R22; ☒ Xi R36/38	

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

### 4 First aid measures

- **General information:** Personal protection for the First Aider.
- **After inhalation:**  
*Take affected persons into fresh air and keep quiet.*  
*Supply fresh air and to be sure call for a doctor.*  
*In case of unconsciousness place patient stably in side position for transportation.*
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
*Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.*
- **After swallowing:** Call for a doctor immediately.

### 5 Firefighting measures

- **Suitable extinguishing agents:**  
*CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards caused by the substance, its products of combustion or resulting gases:**  
*Carbon monoxide (CO)*  
*Under certain fire conditions, traces of other toxic gases cannot be excluded.*
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information**  
*Cool endangered receptacles with water spray.*  
*Collect contaminated fire fighting water separately. It must not enter the sewage system.*

### 6 Accidental release measures

- **Person-related safety precautions:**  
*Mount respiratory protective device.*  
*Keep away from ignition sources.*  
*Wear protective equipment. Keep unprotected persons away.*
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.

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· **Measures for cleaning/collecting:**

Ensure adequate ventilation.

Pick up mechanically.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

\* **7 Handling and storage**

· **Handling:**

· **Information for safe handling:**

Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Open and handle receptacle with care.

Do not refill residue into storage receptacles.

Restrict the quantity stored at the work place.

Handle with care. Avoid jolting, friction and impact.

· **Information about fire - and explosion protection:**

Protect from heat.

Protect against electrostatic charges.

Keep ignition sources away - Do not smoke.

Prevent impact and friction.

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Store only in the original receptacle.

Prevent any seepage into the ground.

Use only receptacles specifically permitted for this substance/product.

· **Information about storage in one common storage facility:**

Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Keep container tightly sealed.

· **Maximum storage temperature:** < 30°C

\* **8 Exposure controls/personal protection**

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

· **Ingredients with limit values that require monitoring at the workplace:**

**94-36-0 dibenzoyl peroxide (25-<50%)**

WEL Long-term value: 5 mg/m<sup>3</sup>

· **Additional information:** The lists valid during the making were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

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- **Respiratory protection:**  
Not necessary if room is well-ventilated.  
Use suitable respiratory protective device in case of insufficient ventilation.  
Filter A/P2

- **Protection of hands:**



Protective gloves

- **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.

Butyl rubber

Fluorocarbon rubber (Viton)

Nitrile rubber

Chloroprene rubber

- **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.

- **Not suitable are gloves made of the following materials:**

Leather gloves

Strong material gloves

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

- **General Information**

- **Appearance:**

**Form:** Pasty

**Colour:** Red

· **Odour:** Characteristic

- **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** Undetermined.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** May cause fire.

- **Ignition temperature:**

**Decomposition temperature:** 50 SADT°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Vapour pressure At 20°C:** 1 hPa

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· <b>Density At 20°C:</b>	1.15 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with water:</b>	Insoluble.
· <b>Viscosity:</b> <b>Dynamic At 20°C:</b>	35000 mPas
· <b>Solvent content:</b> <b>Organic solvents:</b>	0.0 %
<b>Solids content:</b>	50.0 %
· <b>Additional information:</b> <b>VOC (EU):</b>	0.00 %

### 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 reducing agents.
- **Dangerous decomposition products:** No dangerous decomposition products known.
- **Additional information:**  
As long as the prescribed application concentrations are maintained there is no danger that stable emulsions will form.

### 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant
- **Sensitisation** May cause sensitisation by skin contact.

### 12 Ecological information

- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 13 Disposal considerations

- **Product:**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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· **European waste catalogue**

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 09 00	oxidising substances
16 09 03	peroxides, for example hydrogen peroxide
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 09 00	oxidising substances
16 09 04	oxidising substances, not otherwise specified

· **Uncleaned packaging:**

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

**\* 14 Transport information**

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



- **ADR/RID class:** 5.2 Organic peroxides.
- **UN-Number:** 3108
- **Packaging group:** -
- **Hazard label** 5.2
- **Description of goods:** 3108 ORGANIC PEROXIDE TYPE E, SOLID
- **Tunnel restriction code** D

· **Maritime transport IMDG:**



- **IMDG Class:** 5.2
- **UN Number:** 3108
- **Label** 5.2
- **Packaging group:** -
- **Marine pollutant:** No
- **Proper shipping name:** ORGANIC PEROXIDE TYPE E, SOLID

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



- **ICAO/IATA Class:** 5.2
- **UN/ID Number:** 3108
- **Label** 5.2
- **Packaging group:** -
- **Proper shipping name:** ORGANIC PEROXIDE TYPE E, SOLID

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### **15 Regulatory information**

- **Chemical safety assessment** A Chemical Safety Assessment has not been carried out.
- **National regulations:**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**  
 UVV Umgang mit Gefahrstoffen( BGV B1)  
 UVV Organische Peroxide (BGV B4)

### **16 Other information**

*This information 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 phrases**  
 R22 Harmful if swallowed.  
 R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.  
 R36 Irritating to eyes.  
 R36/38 Irritating to eyes and skin.  
 R43 May cause sensitisation by skin contact.  
 R7 May cause fire.
- **Department issuing MSDS:** Research & Development
- **Contact:** Dr. Thomas Sürig
- **\* Data compared to the previous version altered.**