

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: **DINITROL 6064 BP-Härter für Spachtel**

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

Application of the substance / the preparation **Hardening agent/ Curing agent**

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

DINOL GmbH

Pyrmonter Str. 76

D-32676 Lügde

Tel: +49 5281 9829 80

Fax: +49 5281 9829 860

E-mail: msds@dinol.com

Further information obtainable from: **Research & Development**

1.4 Emergency telephone number: **Giftnotruf Berlin +49(0)30 30686 790 Beratung in Deutsch und Englisch.**

SECTION 2: Hazards identification

2.1 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.



N; Dangerous for the environment

R50: Very toxic to aquatic organisms.

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.

2.2 Label elements

Labelling according to EU guidelines:

The product has been marked in accordance with EU Directives / respective national laws.

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

The R and S phrases may be omitted if packaging contains no more than 0.125 litre.

Code letter and hazard designation of product:

Xi Irritant

O Oxidising

N Dangerous for the environment

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Trade name: DINITROL 6064 BP-Härter für Spachtel

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

benzoyl peroxide

· **Risk phrases:**

7 May cause fire.

36 Irritating to eyes.

43 May cause sensitisation by skin contact.

50 Very toxic to aquatic organisms.

· **Safety phrases:**

2 Keep out of the reach of children.

3/7 Keep container tightly closed in a cool place.

14 Keep away from reducing agents, heavy metal compounds, acids and alkalis.

24/25 Avoid contact with skin and eyes.

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.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterization: Mixtures**

· **Description:** Mixture of substances listed below with additions.

· **Dangerous components:**

CAS: 94-36-0 EINECS: 202-327-6	benzoyl peroxide Xi R36; Xi R43; E R3; O R7; N R50 Org. Perox. B, H241; Eye Irrit. 2, H319; Skin Sens. 1, H317	25-<50%
CAS: 670241-72-2 ELINCS: 447-010-5	Nonylbenzoate, branched and linear Aquatic Chronic 2, H411	10-<25%
CAS: 9038-95-3	Polyalkylenglykolmonobutylether Xn R22; Xi R36/38 Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-<5%

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

SECTION 4: First aid measures

· **4.1 Description of 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.

If skin irritation continues, consult a doctor.

· **After eye contact:**

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

· **After swallowing:** If symptoms persist consult doctor.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**
Carbon monoxide (CO)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.
Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Keep away from ignition sources.
- **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Keep receptacles tightly sealed.
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Do not refill residue into storage receptacles.
Restrict the quantity stored at the work place.
Handle with care. Avoid jolting, friction and impact.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
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:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

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

· 8.1 Control parameters

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

94-36-0 benzoyl peroxide

WEL Long-term value: 5 mg/m³

557-05-1 zinc stearate

WEL Short-term value: 20* mg/m³
Long-term value: 10* 4** mg/m³
*inhalable dust **respirable dust

· **DNELs**

94-36-0 benzoyl peroxide

Oral	Long-term - systemic effects, general population	1.65 mg/kg bw/day (General population)
Dermal	Long-term - systemic effects, general population	3.3 mg/kg bw/day (General population)
	Long-term - systemic effects, worker	6.6 mg/kg bw/day (Worker)
Inhalative	Long-term - local effects, worker	11.75 mg/m ³ (Worker)
	Long-term - systemic effects, general population	2.9 mg/m ³ (General Population)

670241-72-2 Nonylbenzoate, branched and linear

Dermal	Long-term - systemic effects, worker	7.77 mg/kg bw/day (Worker)
Inhalative	Acute - local effects, general population	59.3 mg/m ³ (Worker)

· **PNECs**

94-36-0 benzoyl peroxide

Aquatic compartment - freshwater	0.000602 mg/L (not specified)
Aquatic compartment - sediment in freshwater	0.338 mg/kg sed dw (not specified)
Aquatic compartment - sediment in marine water	0.0338 mg/kg sed dw (not specified)

670241-72-2 Nonylbenzoate, branched and linear

Aquatic compartment - freshwater	0.0043 mg/L (not specified)
Aquatic compartment - marine water	0.00043 mg/L (not specified)

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

· 8.2 Exposure controls

· **Personal protective equipment:**

· **General protective and hygienic measures:**

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.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

· **Protection of hands:**



Protective gloves

· **Material of gloves**

Butyl rubber

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Chloroprene rubber

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 trough 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

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Pasty

Colour: Red

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· **Flash point:** 161 °C (DIN 53213)

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

· **Ignition temperature:** 370 °C

· **Decomposition temperature:** SADT = 50 °C

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

· **Danger of explosion:** Not determined.

· **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

· **Vapour pressure At 20 °C:** 1 hPa

· **Density At 20 °C:** 1.15 g/cm³ (DIN 51757)

· **Relative density** Not determined.

· **Vapour density** Not applicable.

· **Evaporation rate** Not applicable.

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- | | |
|---|---|
| · Solubility in / Miscibility with water: | <i>Insoluble.</i> |
| · Partition coefficient (n-octanol/water): | <i>Not determined.</i> |
| · Viscosity: | |
| Dynamic At 20 °C: | <i>35000 mPas</i> |
| Kinematic: | <i>Not applicable.</i> |
| · Solvent content: | |
| Solids content: | <i>50.0 % (DIN 53216)</i> |
| · 9.2 Other information | <i>No further relevant information available.</i> |

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **10.3 Possibility of hazardous reactions** *Reacts with reducing agents.*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:** *No further relevant information available.*
- **10.6 Hazardous decomposition products:** *Carbon monoxide*
- **Additional information:**
As long as the prescribed application concentrations are maintained there is no danger that stable emulsions will form.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

94-36-0 benzoyl peroxide

Oral	LD50	>5000 mg/kg (RAT)
Inhalative	LC50/4 h	> 24.3 mg/l (RAT)

670241-72-2 Nonylbenzoate, branched and linear

Oral	LD50	> 2500 mg/kg (RAT)
Dermal	LD50	> 2000 mg/kg (RAT)
Inhalative	LC 50	> 5.22 mg/l (RAT)
	LC50/96 h	> 1.23 mg/l (CYPRINUS CARPIO)

- **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

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

94-36-0 benzoyl peroxide

EC50/48 h 0.110 mg/l (DAPHNIA MAGNA)

EC50/72 h 0.0711 mg/l (ALGAE)

EC50/96 h 0.0602 mg/L (Fish)

670241-72-2 Nonylbenzoate, branched and linear

EC50/48 h > 2.2 mg/l (DAPHNIA MAGNA)

· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· Ecotoxicological effects:

· **Remark:** Very toxic for fish

· Additional ecological information:

· General notes:

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

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

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

· 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· 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

15 00 00 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED

15 01 00 packaging (including separately collected municipal packaging waste)

15 01 10* packaging containing residues of or contaminated by dangerous substances




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

SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	UN3108
· 14.2 UN proper shipping name · ADR · IMDG · IATA	3108 ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE), MARINE POLLUTANT ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)
· 14.3 Transport hazard class(es) · ADR, IMDG	
 	
· Class · Label	5.2 Organic peroxides. 5.2
· IATA	
	
· Class · Label	5.2 Organic peroxides. 5.2
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Organic peroxides.
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Transport category · Tunnel restriction code	500 g 2 D

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to EU guidelines:**
*The product has been marked in accordance with EU Directives / respective national laws.
 The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
 The R and S phrases may be omitted if packaging contains no more than 0.125 litre.*
- **Code letter and hazard designation of product:**
*Xi Irritant
 O Oxidising
 N Dangerous for the environment*
- **Hazard-determining components of labelling:**
benzoyl peroxide
- **Risk phrases:**
*7 May cause fire.
 36 Irritating to eyes.
 43 May cause sensitisation by skin contact.
 50 Very toxic to aquatic organisms.*
- **Safety phrases:**
*2 Keep out of the reach of children.
 3/7 Keep container tightly closed in a cool place.
 14 Keep away from reducing agents, heavy metal compounds, acids and alkalis.
 24/25 Avoid contact with skin and eyes.
 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.*
- **National regulations:**
- **Waterhazard class:** *Water hazard class 2 (Self-assessment): hazardous for water.*
- **Other regulations, limitations and prohibitive regulations**
*UVV Umgang mit Gefahrstoffen(BGV B1)
 UVV Organische Peroxide (BGV B4)*
- **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

SECTION 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**
*H241 Heating may cause a fire or explosion.
 H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H411 Toxic to aquatic life with long lasting effects.*
- **R22 Harmful if swallowed.**
- **R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.**
- **R36 Irritating to eyes.**

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Trade name: DINITROL 6064 BP-Härter für Spachtel

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*R36/38 Irritating to eyes and skin.**R43 May cause sensitisation by skin contact.**R50 Very toxic to aquatic organisms.**R7 May cause fire.*

- **Department issuing MSDS:** Research & Development
- **Contact:** Kontakt: msds@dinol.com oder Tel.: 0049 (0)5281 982 980
- *** Data compared to the previous version altered.**