

# Safety data sheet

## POWDER HARDENER HRDNR PERKADOX CH50

Revision date : 2009/01/29  
Version: 1.0

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(30368193/MDS\_GEN\_US/EN)

### 1. Substance/preparation and company identification

Company

BASF Construction Chemicals, LLC  
100 Campus Drive  
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP

### 2. Composition/information on ingredients

| <u>CAS Number</u> | <u>Content (W/W)</u> | <u>Chemical name</u>                             |
|-------------------|----------------------|--|
| 84-61-7           | 30.0 - 60.0 %        | 1,2-Benzenedicarboxylic acid, dicyclohexyl ester |
| 94-36-0           | 30.0 - 60.0 %        | dibenzoyl peroxide                               |

### 3. Hazard identification

Emergency overview

DANGER: OXIDIZER. MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.  
MAY CAUSE ALLERGIC SKIN REACTION.  
Avoid all sources of ignition: heat, sparks, open flame.  
Avoid contact with the skin, eyes and clothing.  
Avoid inhalation of dusts.  
Store in a cool, dry, well-ventilated area.  
Wash thoroughly after handling.

Potential health effects

**Primary routes of exposure**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

**Irritation:**

*Information on: dibenzoyl peroxide*  
*Eye contact causes irritation. Not irritating to the skin.*

**Sensitization:**

*Information on: dibenzoyl peroxide*  
*Caused skin sensitization in animal studies.*  
*A sensitizing effect on particularly sensitive individuals cannot be excluded.*

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### 4. First-aid measures

**If inhaled:**

After inhalation of dust. Keep patient calm, remove to fresh air. If difficulties occur: Obtain medical attention.

**If on skin:**

After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

**If in eyes:**

Flush with copious amounts of water for at least 15 minutes.

**If swallowed:**

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

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### 5. Fire-fighting measures

|                        |                    |
|------------------------|--------------------|
| Flash point:           | No data available. |
| Autoignition:          | No data available. |
| Lower explosion limit: | No data available. |
| Upper explosion limit: | No data available. |

**Suitable extinguishing media:**

foam, water spray, dry extinguishing media, carbon dioxide

**Unsuitable extinguishing media for safety reasons:**

water jet

**Hazards during fire-fighting:**

carbon dioxide, carbon monoxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

**Protective equipment for fire-fighting:**

Wear a self-contained breathing apparatus.

**Further information:**

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

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### 6. Accidental release measures

**Personal precautions:**

Avoid dust formation. Avoid contact with skin and eyes. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

**Environmental precautions:**

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

**Cleanup:**

Avoid raising dust.

For small amounts: Pick up with suitable appliance and dispose of. Dispose of absorbed material in accordance with regulations.

For large amounts: Pick up with suitable appliance and dispose of. Dispose of absorbed material in accordance with regulations.

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### 7. Handling and storage

#### Handling

##### **General advice:**

Avoid dust formation. Avoid inhalation of dusts. Avoid skin contact. Pour downwind and allow as little free fall as possible while emptying bags into equipment. Breathing must be protected when large quantities are decanted without local exhaust ventilation.

##### **Protection against fire and explosion:**

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Keep away from sources of ignition - No smoking. Dust can form an explosive mixture with air.

#### Storage

##### **General advice:**

Keep container tightly closed and dry; store in a cool place.

##### **Storage incompatibility:**

General: Segregate from metals. Segregate from acids. Segregate from lyes. Segregate from oxidants. Segregate from foods and animal feeds.

### 8. Exposure controls and personal protection

#### Components with workplace control parameters

|                    |       |                                 |
|--------------------|-------|---------------------------------|
| dibenzoyl peroxide | OSHA  | PEL 5 mg/m <sup>3</sup> ;       |
|                    | ACGIH | TWA value 5 mg/m <sup>3</sup> ; |

##### **Advice on system design:**

Provide local exhaust ventilation to maintain recommended P.E.L.

#### Personal protective equipment

##### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate.

##### **Hand protection:**

Chemical resistant protective gloves, Manufacturer's directions for use should be observed because of great diversity of types.

##### **Eye protection:**

Tightly fitting safety goggles (chemical goggles).

##### **Body protection:**

Body protection must be chosen based on level of activity and exposure.

##### **General safety and hygiene measures:**

Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

### 9. Physical and chemical properties

|                |              |                |
|----------------|--------------|----------------|
| Form:          | powder       |                |
| Odour:         | slight odour |                |
| Colour:        | white        |                |
| pH value:      |              | not applicable |
| Melting point: | > 40 °C      |                |

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|  |                             |                    |
|--|-----------------------------|--------------------|
| Vapour pressure:                                       |                             | not applicable     |
| Bulk density:  | 620 - 650 kg/m <sup>3</sup> | ( 20 °C)           |
| Vapour density:  |                             | not applicable     |
| Partitioning coefficient<br>n-octanol/water (log Pow): |                             | No data available. |
| Viscosity, dynamic:                                    |                             | No data available. |
| Solubility in water:                                   |                             | insoluble          |
| Solubility in other solvents:                          |                             | insoluble          |

### 10. Stability and reactivity

**Conditions to avoid:**

Avoid dust formation.

**Substances to avoid:**

strong acids, strong bases, strong oxidizing agents

**Hazardous reactions:**

The product is stable if stored and handled as prescribed/indicated.

Risk of hazardous polymerization under certain conditions (e.g. elevated temperatures, low inhibitor and oxygen concentration).

**Decomposition products:**

carbon oxides, biphenyls, nitrogen oxides

**Thermal decomposition:**

>= 131 °F

Violent decomposition and deflagration takes place above the indicated temperature or under local heating.

Risk of exothermic self-accelerating decomposition above the indicated temperature.

### 11. Toxicological information

**Acute toxicity**

**Oral:**

No data available.

*Information on: dibenzoyl peroxide*

*LD50/mouse/male/female: > 2,000 mg/kg (OECD Guideline 401)*

*LD50/rat/male: > 5,000 mg/kg*

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**Inhalation:**

No data available.

*Information on: dibenzoyl peroxide*

*LC0/rat/male: 24.3 mg/l / 4 h*

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**Dermal:**

No data available.

### 12. Ecological information

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### Environmental toxicity

#### **Other ecotoxicological advice:**

Ecological data are not available.

## 13. Disposal considerations

#### **Waste disposal of substance:**

Dispose of in accordance with national, state and local regulations.

Recommendations: Use excess product in an alternate beneficial application.

#### **Container disposal:**

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

## 14. Transport information

#### **Land transport**

USDOT

|                       |  |
|-----------------------|--|
| Hazard class:         | 5.2  |
| Packing group:        | II   |
| ID number:            | UN 3106  |
| Hazard label:         | 5.2  |
| Proper shipping name: | ORGANIC PEROXIDE TYPE D, SOLID (contains DIBENZOYL PEROXIDE) |

#### **Sea transport**

IMDG

|                       |  |
|-----------------------|--|
| Hazard class:         | 5.2  |
| ID number:            | UN 3106  |
| Hazard label:         | 5.2  |
| Marine pollutant:     | NO   |
| Proper shipping name: | ORGANIC PEROXIDE TYPE D, SOLID (contains DIBENZOYL PEROXIDE) |

#### **Air transport**

IATA/ICAO

|                       |  |
|-----------------------|--|
| Hazard class:         | 5.2  |
| ID number:            | UN 3106  |
| Hazard label:         | 5.2  |
| Proper shipping name: | ORGANIC PEROXIDE TYPE D, SOLID (contains DIBENZOYL PEROXIDE) |

## 15. Regulatory information

### Federal Regulations

#### **Registration status:**

TSCA, US released / listed

**SARA hazard categories (EPCRA 311/312):** Reactivity, Acute, Fire

**SARA 313:**

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**CAS Number**

94-36-0

**Chemical name**

dibenzoyl peroxide

**State regulations**

**State RTK**

**CAS Number**

84-61-7

94-36-0

**Chemical name**

1,2-Benzenedicarboxylic acid, dicyclohexyl ester

dibenzoyl peroxide

**State RTK**

NJ, PA

MA, NJ, PA

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### 16. Other information

**HMIS III rating**

Health: 2

Flammability: 2

Physical hazard: 2

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

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END OF DATA SHEET