

**SAFETY DATA SHEET****1. Product and Company Identification**

- 1.1 PRODUCT NAME:** DURACON CATALYST
- 1.2 USE OF PRODUCT** Catalyst for Duracon flooring system.
- 1.3 SUPPLIER:** Equus Industries Ltd  
Sheffield Street  
Riverlands Industrial Estate  
Blenheim, Marlborough, New Zealand  
Telephone: +64 3 578 0214  
Fax: +64 3 5780919
- 1.4 EMERGENCY CONTACT:** **National Poison Centre**  
**Telephone: 0800 764 766**

Information about Safety Data Sheet: Telephone: +64 3 5780214 8:00am – 6:00pm Mon - Fri

**2. Hazards Identification**

- 2.1 Classification:**
- 2.1.1** Classified as hazardous according to New Zealand Hazardous Substances (Classification) Regulations 2001.
- 2.1.2** Classified as Dangerous Goods for transport according to the New Zealand Standard NZS:5433:2007 Transport of Dangerous Goods on Land.
- 2.1.3** HSNO Classification  
5.2C, 6.4A, 6.5B, 9.1D
- 2.2 Risk & Safety Phrases:**  
R2,36,43  
S3,7,14,22,36,37,38,50

The full text of each R & S phrases are listed in Section 16.

**3. Composition/Information on Ingredients**

- 3.1 Chemical Characterization (Preparation):**  
Dibenzoyl peroxide, 50% powder with dicyclohexyl phthalate.

**3.2 Hazardous Ingredients:**

CAS NO.	COMPONENT	CONCENTRATION %	CLASSIFICATION
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94-36-0	Dibenzoyl peroxide	30-60%	R2/7/22/23/36/37/38/43/ 52/53
84-61-7	Dicyclohexyl phthalate	48.5%	-

- 3.3** Only ingredients, additives and impurities which are classified and contribute to the classification of the product are included in this section.

### 4. First Aid Measures

- 4.1 After Inhalation:**  
Remove person to fresh air, rest, half upright position, loosen clothing.
- 4.2 After Skin Contact:**  
Remove all contaminated clothing immediately. Wash off with plenty of soap and water. Seek medical advice if irritation develops.
- 4.3 After Eye Contact:**  
Rinse immediately and as long as possible with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.
- 4.4 After Ingestion:**  
Do not induce vomiting. Rinse mouth with water. Call a doctor immediately.
- 4.5 Symptoms and Effects:**  
Irritating to eyes. May cause sensitization by skin contact. Dust may be irritating to the respiratory tract and cause symptoms of bronchitis.
- 4.6 Advice to Doctor:**  
Treat symptomatically.

### 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Media:**  
Carbon dioxide, dry chemical powder, dry sand, water, foam.
- 5.2 Unsuitable Extinguishing Media:**  
Halones.
- 5.3 Protective Equipment:**  
Wear suitable protective clothing. Wear self contained breathing apparatus.
- 5.4 Specific Hazards:**  
Caution – reignition may occur. Decomposition under effect of heating. If involved in a fire, it will support combustion. In case of fire and/or explosion do not breathe fumes.
- 5.5 Combustion Products:**  
Carbon dioxide, carbon monoxide, benzoic acid, benzene.
- 5.6 Precautions in Connection with Fire:**  
Extinguish a small fire with powder or carbon dioxide then apply water to prevent reignition. Cool closed containers with water.

### 6. Accidental Release Measures

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### 6.1 Preliminary Action and Precautions:

- 6.1.1 Caution – reignition may occur.
- 6.1.2 Avoid breathing dust and contact with skin, eyes and clothing.
- 6.1.3 Wear recommended personal protective equipment and clothing.
- 6.1.4 Prevent entry of product into sewers, soil, storm water drains and open bodies of water.
- 6.1.5 Collect the spillage in closable, suitable disposal containers.
- 6.1.6 Clean up all spills. Moisten with water. Sweep up with dustpan and brush off inert material, flushing remainder with water.
- 6.1.7 Avoid dust generation.
- 6.1.8 Keep contents moist. The waste should not be confined.

<b>7. Handling and Storage</b>
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### 7.1 Handling:

- 7.1.1 Never weigh out in the storage room.
- 7.1.2 When using do not eat, drink or smoke.
- 7.1.3 Do not breathe dust. Avoid dust generation. Dust explosion possible in the presence of air.
- 7.1.4 Use only in well ventilated areas.
- 7.1.5 Keep product and emptied containers away from heat and sources of ignition.
- 7.1.6 Confinement must be avoided.
- 7.1.7 Do not allow to dry out.
- 7.1.8 Avoid contact with skin and eyes.
- 7.1.9 Wash hands thoroughly after handling or contact.
- 7.1.10 Keep work clothes separately and do not take them home.

### 7.2 Storage:

- 7.2.1 Store product in closed original containers.
- 7.2.2 Store in dry, well ventilated room with a maximum temperature of 25<sup>0</sup>C.
- 7.2.3 Store away from sources of heat and direct sunlight.
- 7.2.4 Store away from reducing agents (e.g. amines), acids, alkalis and heavy metal compounds (e.g. accelerators, driers, metal soaps).
- 7.2.5 Store away from food, drink and animal feedingstuffs.

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7.2.6 Store in accordance with local/national regulations.

## 8. Exposure Controls and Personal Protection Equipment

### 8.1 Exposure Limits:

Dibenzoyl Peroxide                      Cas – 94-36-0                      OES/TWA(ACGIH): 5.0mg/m<sup>3</sup>

### 8.2 Exposure Controls:

#### 8.2.1 Exposure Controls in the Work Place:

Ensure good ventilation and local exhaustion of the working areas. Explosion proof ventilation recommended.

#### 8.2.2 Personal Protection Equipment

Respiratory Protection – Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment (respirator with filter P1).

Hand Protection – Wear suitable protective gloves. Neoprene or synthetic rubber.

Eye Protection – Wear eye/face protection.

Skin/Body Protection – Wear suitable protective clothing.

#### 8.2.3 General:

Adhere to normal practices when handling chemical products (do no eat, drink, or smoke when working with them). Launder contaminated clothing before reuse.

## 9. Physical and Chemical Properties

### 9.1 General Information:

#### Data relating to safety

Appearance:	Free flowing powder.
Colour:	White.
Smell:	Faint
pH-value:	Weak acid
Melting Point/range:	>40 <sup>0</sup> C tends to cake
Boiling Point/range:	Do not distill (Decomposes)
Flash point:	Above the SADT value
Autoignition temperature:	Test method not applicable (see section 7)
Explosion limits:	Not applicable
Vapour pressure:	Not determined
Solubility in water:	Insoluble
Density at 20 <sup>0</sup> C:	1230 kg/cm <sup>3</sup>
Bulk density at 20 <sup>0</sup> C:	620-650kg/m <sup>3</sup>
Viscosity:	Not applicable
Peroxide content:	49.0-51.0%
Active oxygen content:	3.3%
SADT:	55 <sup>0</sup> C. See section 10. for other information.
Specific conductivity:	Not determined
Relative vapour density (air = 1):	Not determined
Partition coefficient n-octanol/water:	Not determined
Oxidizing properties:	Not applicable

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Explosive properties:

No

Flammability:

Not determined

### 10. Stability and Reaction

#### 10.1 General Information:

SADT – (self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the following temperature 55<sup>0</sup>C. Contact with incompatible substances can cause decomposition at or below the SADT 55<sup>0</sup>C.

#### 10.2 Conditions to Avoid:

Temperatures of >25<sup>0</sup>C. Confinement must be avoided. Do not allow to dry out. Explosive when dry.

#### 10.3 Material to Avoid:

Avoid contact with rust, iron and copper. Contact with incompatible materials such as acids, alkalies, heavy metal and reducing agents will result in hazardous decomposition. Do not mix with peroxide accelerators. Use only stainless steel 316, PVC, polyethylene or glass lined equipment.

#### 10.4 Hazardous Decomposition Products:

None expected when material properly handled and stored. For thermal decomposition see Section 5.

#### 10.5 Other Information:

Emergency procedures will vary depending on conditions. The customer must have an emergency response plan in place. Contact Equus Industries for assistance with developing an emergency response plan.

### 11. Toxicological Information

**Based on:** Dibenzoyl peroxide 78%

#### 11.1 Acute toxicity:

Oral LD 50: Rat >5000 mg/kg

Inhalation LC 50: Rat >24.3 mg/l; 4 hours exposure time max. attainable concentration.

#### 11.2 Irritation:

Skin: Non-irritating (4 hours exposure time).

Eye: Moderately irritating.

#### 11.3 Gentoxicity:

Ames test: Not mutagenic.

#### 11.4 Sensitization:

Sensitization is possible by skin contact.

#### 11.5 Other toxicological information:

Not carcinogenic (Lit).

**12. Ecological Information**

**Based on:** Dibenzoyl peroxide 78%

**12.1 Ecotoxicity:**

Fish: Acute toxicity, 96 h-LC50 = 2.0 mg/l. (*Poecilia reticulata*).  
Bacteria: Activated sludge respiration inhibition test EC50 = 35 mg/l.  
Daphnia: 48 h-EC50: 2.91 mg/l.

**12.2 Fate:**

Degradation Biotic: Readily biodegradable (closed bottle test).

**13. Disposal Consideration****13.1 Material**

Dispose of according to regulations by controlled incineration in a special waste incinerator (most likely) or landfill at a permitted facility in accordance with local/national regulations.

**14. Transport Information****14.1 Land Transport:**

**Road:** Organic peroxide type D, solid (Dibenzoyl peroxide), (Class: 5.2, )

**Rail:** Organic peroxide type D, solid (Dibenzoyl peroxide), (Class: 5.2, )

**14.2 Sea Transport:** Organic peroxide type D, solid (Dibenzoyl peroxide), (Class: 5.2, )  
Marine pollutant.

**14.3 Air Transport:** Organic peroxide type D, solid (Dibenzoyl peroxide), (Class: 5.2, )

**14.4 Postal and Courier Service:** Can not be transported.

**15. Regulatory Information**

**15.1** Classified as hazardous according to New Zealand Hazardous Substances (Classification) Regulations 2001.

**15.2** Organic Peroxides Group Standard 2006  
HSR 002629

**15.3** Poisons Schedule – not scheduled

**15.4** Hazard Category : Irritant, Explosive

**16. Other Information****16.1 Full Text of R-Phrases Contained in Section 2:**

**R2** Risk of explosion by shock, friction, fire or other sources of ignition  
**R36** Irritating to eyes  
**R43** May cause sensitization by skin contact.

**16.2 Full Text of S-Phrases Contained in Section 2:**

<b>S3/7</b>	Keep container tightly closed in a cool place
<b>S14</b>	Keep away from reducing agents (e.g amines), acids alkalies and heavy metal compounds (e.g. accelerators, driers, metal soaps)
<b>S22</b>	Do not breathe dust
<b>S36/37/38</b>	Wear suitable protective clothing, gloves and eye/face protection
<b>S50</b>	Do not mix with peroxide accelerators or reducing agents

**16.3** The information contained in this Data Sheet relates only to the specific material identified. Equus Industries Ltd believes the information to be accurate and reliable as at the date of this Data Sheet. No Warranty, Guarantee or representation is expressed or implied by the Company as to the absolute correctness or completeness of any representation contained in this Data and assumes no legal responsibility in connection therewith. It can not be assumed that all acceptable safety measures are contained in this Data Sheet, or that additional measures may not be required under particular or exceptional circumstances or conditions.