

## SAFETY DATA SHEET

### Section 1. Identification of the material and the supplier

Product: **BP-50-FT1**  
 Product Use: Curing chemical  
 Restriction of Use in NZ: Refer to Section 15

Company Name: **Degafloor NZ**  
 Address: 6 Sheffield Street  
 Levin, 5510

Telephone: +64 6 367 9799  
 E-mail: [orders@degafloor.nz](mailto:orders@degafloor.nz)  
**Emergency No: 0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 24 February 2021

### Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

**EPA Approval No: Organic Peroxide (subsidiary) – HSR002629**

#### Pictograms



Peroxide    Irritant    Chronic    Ecotoxic

Signal Word: **DANGER**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
5.2D	H242	Heating may cause a fire.	Org. Perox. D
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.5B	H317	May cause an allergic skin reaction.	Skin Sens. 1
6.8A	H360D	May damage fertility or the unborn child.	Repr. 1B
9.1A	H410	Very toxic to aquatic life with long lasting effects.	Aquatic Chronic 1

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P220	Keep or Store away from clothing or combustible materials.
P234	Keep only in original container.
P261	Avoid breathing fumes, gas, mist, vapours or spray.

P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.
P281	Use personal protective equipment as required.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
P405	Store locked up.
P410	Protect from sunlight.
P420	Store away from other materials.
P411 + P235	Store at temperatures not exceeding ...°C . Keep cool.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

### Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Dibenzoyl peroxide	≥45 - <50	94-36-0
Dicyclohexyl phthalate	≥45 - <50	84-61-7

### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	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.
If on Skin	Wash contaminated clothing before reuse. Wash skin with plenty of soap and water. If skin irritation or rash occurs: get medical advice/attention.
If Swallowed	Do not induce vomiting. Wash out mouth thoroughly with water. Never give anything to the mouth of an unconscious person. Seek medical attention if needed.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

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

Symptoms:

<b>Ingestion:</b>	Not applicable.
<b>Inhalation:</b>	Not applicable.
<b>Skin:</b>	May cause an allergic skin reaction.
<b>Eye:</b>	Causes serious eye irritation.
<b>Chronic:</b>	May damage the unborn child.

**Treatment:** Treat symptomatically and supportively.

## Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Heating may cause fire.
<b>Hazards from products</b>	Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self-accelerating decomposition reaction with release of flammable vapors which may auto-ignite. The product burns violently. Flash back possible over considerable distance. Vapours may form explosive mixtures with air. The product will float on water and can be reignited on surface water. Cool closed containers exposed to fire with water spray.
<b>Suitable Extinguishing media</b>	Water spray jet, alcohol-resistant foam, carbon dioxide (CO <sub>2</sub> ) or dry chemical. Do not use high volume water jet.
<b>Specific extinguishing methods</b>	Do not use a solid water stream as it may scatter and spread fire. Remove undamaged containers from fire area if it is safe to do so. Use water spray to cool unopened containers.
<b>Precautions for firefighters and special protective clothing</b>	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>HAZCHEM CODE</b>	<b>1WE</b>

## Section 6. Accidental Release Measures

### Personal precautions:

Use protective clothing as detailed in Section 8. Avoid dust formation. Avoid breathing dust. Remove all sources of ignition. Follow safe handling advice and personal protective equipment recommendations. Never return spills in original containers for re-use.

### Environmental precautions:

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

### Spill and Disposal procedures:

Contact with incompatible substances can cause decomposition at or below SADT. Clear spills immediately. Suppress (knock down) gases/vapours/mists with a water spray jet. To clean the floor and all objects contaminated by this material, use plenty of water. Soak up with inert absorbent material. Isolate waste and do not reuse. Non-sparking tools should be used.

Dispose of in accordance with local regulations detailed in Section 13.

## Section 7. Handling and Storage

### Precautions for Handling:

- Keep out of reach of children.
- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Keep or store away from clothing or combustible materials.

- Take precautionary measures against static discharges.
- Never return any product to the container from which it was originally removed.
- Provide sufficient air exchange and/or exhaust in work rooms.
- Avoid confinement.
- Keep only in original container.
- Avoid breathing fumes, gas, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Use personal protective equipment as required.
- Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Protect from contamination.

#### Advice on protection against Fire and Explosion:

- Avoid dust formation.
- Provide appropriate exhaust ventilation at places where dust is formed.
- Keep away from heat and sources of ignition.
- Use only explosion-proof equipment.
- Keep away from combustible material.

#### Precautions for Storage:

- Keep away from strong acids, bases, heavy metal salts and other reducing substances.
- Store locked up.
- Protect from sunlight.
- Store away from other materials.
- Store at temperatures not exceeding 30°C . Keep cool.
- Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Store in original container.
- Keep containers tightly closed in a cool, well-ventilated place.
- Avoid impurities (e.g. rust, dust, ash), risk of decomposition.
- Electrical installations / working materials must comply with the technological safety standards.

### Section 8 Exposure Controls / Personal Protection

#### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Benzoyl peroxide [94-36-0]	-	5	-	-
Dicyclohexyl phthalate [84-61-7]	-	5	-	-

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2019 11<sup>TH</sup> EDITION.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Dibenzoyl peroxide	Workers	Inhalation	Long-term systemic effects	11.75 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	6.6 mg/kg bw/day

dicyclohexyl phthalate	Workers	Inhalation	Long-term systemic effects	35.2 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	0.5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.87 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	0.25 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0.25 mg/kg
	Consumers	Ingestion	Acute systemic ef-	0.25 mg/kg

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

Substance name	Environmental Compartment	Value
Dibenzoyl peroxide	Fresh water	0.000602 mg/l
	Marine water	< 0.0001 mg/l
	Intermittent use/release	0.000602 mg/l
	Sewage treatment plant	0.35 mg/l
	Fresh water sediment	0.338 mg/kg
	Soil	0.0758 mg/kg
dicyclohexyl phthalate	Oral	6.67 mg/kg
	Fresh water	0.036 mg/l
	Marine water	0 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	1.06 mg/kg dry weight (d.w.)
	Marine sediment	0.106 mg/kg dry weight (d.w.)

**Engineering Controls**

Minimize workplace exposure concentrations.

**Personal Protection Equipment**



<b>Eyes</b>	Tightly fitting safety goggles Please wear suitable protective goggles. Also wear face protection if there is a splash hazard. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Hands</b>	Material : butyl-rubber Break through time : >= 480 min Glove thickness : 0.5 mm
<b>Skin</b>	Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
<b>Respiratory</b>	In the case of dust or aerosol formation use respirator with an approved filter. Filter type: Filter type P

**Section 9 Physical and Chemical Properties**

<b>Appearance</b>	Powder
<b>Colour</b>	White
<b>Odour</b>	Aromatic
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not available
<b>Boiling Point</b>	Not available
<b>Melting Point</b>	Decomposes below the melting point.
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	Not available

<b>Flammability</b>	Not available
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density</b>	Not available
<b>Bulk Density</b>	620 kg/m <sup>3</sup>
<b>Water Solubility</b>	Insoluble
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Minimum ignition temperature:</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Dust Explosion Limit, Lower:</b>	Not available
<b>Dynamic Viscosity</b>	Not available
<b>Self-Accelerating decomposition temperature (SADT)</b>	60 °C Method: UN-Test H.4 SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	Dust may form explosive mixture in air.
<b>Conditions to Avoid</b>	Contact with incompatible substances can cause decomposition at or below SADT. Heat, flames and sparks. Avoid confinement.
<b>Incompatible Materials</b>	Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents
<b>Hazardous Decomposition Products</b>	Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition.

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Not applicable.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not applicable.
<b>Eye</b>	Causes serious eye irritation.
<b>Skin</b>	May cause an allergic skin reaction.

### Chronic Effects:

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	May damage the unborn child.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	Not applicable.

### Components:

#### Dibenzoyl peroxide:

Product Name: BP-50-FT1  
Date of SDS: 24 February 2021

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd  
Tel: 64 9 475 5240 www.techcomp.co.nz

- Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity
- Acute inhalation toxicity : LC50 (Rat): > 24.3 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

**dicyclohexyl phthalate:**

- Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 423  
Assessment: The substance or mixture has no acute oral toxicity
- Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

**Section 12. Ecotoxicological Information**

HSNO Classes: 9.1A = Very toxic to aquatic life with long lasting effects.

**Individual component information:**

**Dibenzoyl peroxide:**

Route	Species	Duration	Value LC50/EC50
Acute aquatic, fish	Oncorhynchus mykiss (rainbow trout)	96 hr	0.06 mg/L
Acute aquatic, Crustacean	Daphnia magna (Water flea) M-Factor = 10	48 hr	0.11 mg/L
Chronic aquatic, Crustacean	Daphnia magna (Water flea) M-Facote = 10	21 d semi-static	EC10: 0.001 mg/L
Acute aquatic, Algal	Pseudokirchneriella subcapitata (green algae)	72hr	0.06 mg/L
Toxicity to microorganisms	Bacteria		35 mg/L
Biodegradability			Inherently biodegradable.
Bioaccumulative potential	Partition coefficient: n- octanol/water		log Pow: 3.2 (20 °C)

**dicyclohexyl phthalate:**

Route	Species	Duration	Value LC50/EC50
Acute aquatic, fish	Oryzias latipes (Orange-red killifish)	96 hr	>2 mg/L
Acute aquatic, Crustacean	Daphnia magna (Water flea) M-Factor = 10	48 hr	>2 mg/L
Chronic aquatic, Crustacean	Daphnia magna (Water flea) M-Factor = 10	21 d	NOEC: : 0.181 mg/L
Acute aquatic, Algal	Pseudokirchneriella subcapitata (green algae)	72hr Growth inhibition	>2 mg/L
Toxicity to microorganisms	Respiration inhibition	3 h	NOEC: >100mg/L
Biodegradability			Readily biodegradable.
Bioaccumulative potential	Partition coefficient: n- octanol/water		log Pow: 4.82 (25 °C)

Do not allow to enter waterways.

### Section 13. Disposal Considerations

#### Disposal Method:

Spent media that has removed toxic chemicals should be examined for specific hazards. Spilled product may be recovered for use if it has not come in contact with liquids or been exposed to significant amounts of gaseous contaminants. Dispose of according to Local Regulations.

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste – Peroxide, Chronic, Ecotoxic" and that the label also has the appropriate pictograms from section 2, waste type identifier, and the business name, address, and phone number.

#### Contaminated Packaging:

Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

**Precautions or methods to avoid:** Avoid release to the environment.

### Section 14 Transport Information

**This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012**



#### Road, Rail, Sea and Air Transport

<b>UN No</b>	3106
<b>Class - Primary</b>	5.2
<b>Packing Group</b>	II
<b>Proper Shipping Name</b>	ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)
<b>Marine Pollutant</b>	YES
<b>Special Provisions</b>	If the product's individual container is below 500g, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

### Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: Organic Peroxide (subsidiary) – HSR002629

HSNO Classification: 5.2D, 6.4A, 6.5B, 6.8A, 9.1A

<b>HSW (HS) Regulations 2017 and EPA Notices</b>	<b>Trigger Quantity</b>
Certified Handler	Not required
Location Certificate	>10 kg (5.2D)
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	10 kg (5.2D)
Fire Extinguisher Quantities	10 kg – 1x required (5.2D)
Emergency Response Plan	25 kg (5.2D)
Secondary Containment	25 kg (5.2D)
Restriction of Use	Only use for the intended purpose.



**Glossary**

EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

**Disclaimer**

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact Degafloor NZ, if further information is required.

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24 February 2021

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