



Safety Data Sheet

prepared to UN GHS Revision 3

1. Identification of the Substance/Mixture and the Company/Undertaking

| | | | | |
|-----|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------|
| 1.1 | Product Identifier | Peroxan BP-Pulver 50 W+ | Revision Date: | 18.08.2017 |
| | Product Name: | Flowfast Catalyst | Supersedes Date: | New SDS |
| 1.2 | Relevant identified uses of the substance or mixture and uses advised against | No Information | | |
| 1.3 | Details of the supplier of the safety data sheet | | | |
| | Importer: | Flowcrete Australia Pty Ltd Unit 2, 41 Deakin Street Brendale Queensland 4500 Australia Phone: +61 7 3205 7115 Fax: +61 7 3205 3116 australia@flowcrete.com www.flowcreteaustralia.com.au | | |
| 1.4 | Emergency telephone number: | CHEMTREC 1-800-424-9300 (Inside US) CHEMTREC +1 703 5273887 (Outside US) | | |

2. Hazard Identification

2.1 Classification of the substance or mixture

| | |
|-------------------|------------------------------------------------------------|
| Org. Perox. D | H242 Heating may cause a fire. |
| Eye Irrit. 2 | H319 Causes serious eye irritation. |
| Skin Sens. 1 | H317 May cause an allergic skin reaction. |
| Repr. 2 H361 | Suspected of damaging fertility or the unborn child. |
| Aquatic Acute 1 | H400 Very toxic to aquatic life. |
| Aquatic Chronic 1 | H410 Very toxic to aquatic life with long lasting effects. |

2.2 Label elements

Symbol(s) of Product



Signal Word

Danger

Named Chemicals on Label

Dibenzoyl-peroxide, dicyclohexyl phthalate

HAZARD STATEMENTS

| | |
|------|-------------------------------------------------------|
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H242 | Heating may cause a fire |
| H361 | Suspected of damaging fertility or the unborn child. |
| H410 | Very toxic to aquatic life with long lasting effects. |

PRECAUTION PHRASES

| | |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P220 | Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines). |
| P234 | Keep only in original container. |
| P264 | Wash thoroughly after handling. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P410 | Protect from sunlight. |
| P411+P235 | Store at temperatures not exceeding +30°C. Keep cool. |
| P420 | Do not mix with peroxide-accelerators or reducing agents. |
| P501 | Dispose of contents/container in accordance with local/regional /national/international regulations. |

2.3 Other hazards

No Information

Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

3. Composition/Information On Ingredients

3.2 Mixtures

Hazardous Ingredients

| · Dangerous components: | | |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| CAS: 94-36-0 EINECS: 202-327-6 Index number: 617-008-00-0 Reg-No.:01-2119511472-50 | dibenzoyl peroxide Org. Perox. B, H241; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Eye Irrit. 2, H319; Skin Sens. 1, H317 | 40-50% |
| CAS: 84-61-7 EINECS: 201-545-9 | dicyclohexyl phthalate Repr. 2, H361; Skin Sens. 1, H317; Aquatic Chronic 3, H412 | 40-50% |

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

4. First-aid Measures

4.1 Description of First Aid Measures



- General information: Take care of personal protection for the first aider.
- After inhalation: Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
Take affected persons into fresh air and keep quiet.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
Immediately remove contaminated clothing.
- 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.

Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

No Information

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

5. Fire-fighting Measures

5.1 Extinguishing Media:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture:

Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxide.

5.3 Advice for firefighters:

Do not inhale explosion gases or combustion gases.
Cool endangered receptacles with water spray.
Self-protection first!

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources.
In case of further temperature should be cooled with waterspray from a safe distance.
Wear breathing apparatus with filter A during decomposition of materials.
Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up

Ensure adequate ventilation.
Large quantities should be diluted with suitable desensitisation agent to a concentration below 10 % before disposal.

Pick up mechanically, collect in a suitable receptacle and dispose in accordance with government 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.

7. Handling and Storage

7.1 Precautions for safe handling

Keep away from heat and direct sunlight.
Open and handle receptacle with care.
Prevent formation of dust.
Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
Do not refill residue into storage receptacles.
Restrict the quantity stored at the work place.
Before break and at the end of work hands should be thoroughly washed.
Only use tools made of suitable materials (e. g. polyethylene or stainless steel).
Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines).
Oxidizing because of releasing oxygen.
While using do not eat, drink or smoke.
Do not generate flames or sparks.
Keep product and emptied container away from heat and sources of ignition.
Avoid shock and friction.
Take precautionary measures against static discharges.



Do not smoke.

Information about fire - and explosion protection:

Protect from heat.
Protect against electrostatic charges.
Prevent impact and friction.
Use explosion-proof apparatus / fittings and spark-proof tools.
Dust can combine with air to form an explosive mixture.
Substance/product is oxidising when dry.
Product is not explosive. However, formation of explosive air/dust mixtures are possible.



Avoid open flames, sparks, direct sunlight and other sources of ignition.
Keep ignition sources away - Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

· Storage:

Pay attention to the special requirements of your local authorities for storing dangerous goods.

· 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 or park organic peroxide together with heavy metal compounds and amines.
Store away from foodstuffs, drinks and feeding stuffs.

· Further information about storage conditions:

Keep container tightly sealed.
Protect from heat and direct sunlight.
Protect from contamination.
Storage in a collecting room is required.

- Recommended storage temperature (To maintain quality):
max.: +30 °C

7.3 Specific end use(s)

No specific advice for end use available.

8. Exposure Controls/Personal Protection

8.1 Control parameters

| | | |
|----------------------------------------------------------------------------------|--------------------------------------|-------------------------------------|
| · Ingredients with limit values that require monitoring at the workplace: | | |
| 94-36-0 dibenzoyl peroxide | | |
| WEL (Great Britain) | Long-term value: 5 mg/m ³ | |
| 84-61-7 dicyclohexyl phthalate | | |
| WEL (Great Britain) | Long-term value: 5 mg/m ³ | |
| · DNELs | | |
| 94-36-0 dibenzoyl peroxide | | |
| Oral | DNEL Longterm System | 2 mg/kg bw/day (General population) |
| Dermal | DNEL Longterm System | 13.3 mg/kg bw/day (Worker) |
| Inhalative | DNEL Longterm System | 39 mg/m ³ (Worker) |
| 84-61-7 dicyclohexyl phthalate | | |
| Dermal | DNEL Longterm System | 0.5 mg/kg bw/day (Worker) |
| Inhalative | DNEL Longterm System | 35.2 mg/m ³ (Worker) |
| · PNECs | | |
| 94-36-0 dibenzoyl peroxide | | |
| PNEC Marinewater sed | 0.001 mg/kg sed dw | |
| PNEC Freshwater | 0.00002 mg/l (AF 50) | |
| PNEC Freshwater sed | 0.013 mg/kg sed dw | |
| PNEC STP | 0.35 mg/l | |
| PNEC Marinewater | 0.000002 mg/l (AF 500) | |
| 84-61-7 dicyclohexyl phthalate | | |
| PNEC Marinewater sed | 0.106 mg/kg sed dw | |
| PNEC Freshwater | 0.004 mg/l (AF 50) | |
| PNEC Freshwater sed | 1.06 mg/kg sed dw | |
| PNEC Soil | 0.21 mg/kg soil dw | |
| PNEC STP | 10 mg/l (AF 10) | |
| PNEC Marinewater | 0 mg/l (AF 500) | |

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

FURTHER INFORMATION: Refer to the regulatory exposure limits for the workforce enforced in each country.

8.2 Exposure controls

- 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.
Store protective clothing separately.
Avoid close or long term contact with the skin.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or sniff while working.
Use skin protection cream for skin protection.
Be sure to clean skin thoroughly after work and before breaks.

- Respiratory protection:

Not necessary if room is well-ventilated.

Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.



Filter P2

· Protection of hands:

Only use chemical-protective gloves with CE-labelling of category III.



Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
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, BR

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

Neoprene

· 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.

· Eye protection:



Tightly sealed goggles

· Body protection:



Protective work clothing

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

| | |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| · 9.1 Information on basic physical and chemical properties | |
| · General Information | |
| · Appearance: | |
| · Form: | Solid Powder |
| · Colour: | Whitish |
| · Odour: | Characteristic |
| · Odour threshold: | Not determined. |
| · pH-value: | Not applicable. |
| · Change in condition | |
| · Melting point/freezing point: | Not applicable. |
| · Initial boiling point and boiling range: | Not applicable. |
| · Flash point: | Not applicable. |
| · Flammability (solid, gas): | May cause fire. |
| · Decomposition temperature: | +60 °C (SADT) |
| · Auto-ignition temperature: | Product is not selfigniting. |
| · Explosive properties: | Product is not explosive. However, formation of explosive air/dust mixtures are possible. |
| · Explosion limits: | |
| · Lower: | Not determined. |
| · Upper: | Not determined. |

| | |
|-------------------------------------------|--------------------------------------------|
| · Vapour pressure: | Not applicable. |
| · Density at 20 °C: | 1.23 g/cm ³ |
| · Bulk density at 20 °C: | 650 kg/m ³ |
| · Relative density | Not determined. |
| · Vapour density | Not applicable. |
| · Evaporation rate | Not applicable. |
| · Solubility in / Miscibility with water: | Undetermined. |
| · Partition coefficient: n-octanol/water: | not determined |
| · Viscosity: | |
| · Dynamic: | Not applicable. |
| · Kinematic: | Not applicable. |
| 9.2 Other information | |
| · 9.2 Other information | No further relevant information available. |
| · Active oxygen | 3.2 - 3.4 % |

10. Stability and Reactivity

10.1 Reactivity

No Information

10.2 Chemical stability

· Thermal decomposition / conditions to be avoided:

SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating decomposition may occur with 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 decomposition at and above the temperature. Contact with incompatible substances can cause decomposition at or below the SADT.

No decomposition if used and stored according to

10.3 Possibility of hazardous reactions

Self-accelerating decomposition at SADT.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials

Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-metal compounds and amines).

10.6 Hazardous decomposition products

Hydrocarbons, carbon dioxide and -monoxide.

No hazardous decomposition products if used and stored according to specifications.

Additional information:

Emergency procedures will vary depending on conditions. The customer should have an emergency response plan in place.

11. Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity: Based on available data, the classification criteria are not met.

| | | |
|------------------------------------------------------|------|-----------------------|
| · LD/LC50 values relevant for classification: | | |
| 94-36-0 dibenzoyl peroxide | | |
| Oral | LD50 | >5,000 mg/kg (rattus) |
| 84-61-7 dicyclohexyl phthalate | | |
| Oral | LD50 | >2,000 mg/kg (rattus) |

- Primary irritant effect:
- Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- Serious eye damage/irritation: Causes serious eye irritation.
- Respiratory or skin sensitisation: May cause an allergic skin reaction.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Suspected of damaging fertility or the unborn child.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.

12. Ecological Information

12.1 Toxicity:

| | |
|-----------------------------------|-----------------------------------------------|
| · Aquatic toxicity: | |
| 94-36-0 dibenzoyl peroxide | |
| EC50 / 72h | 0.0711 mg/l (pseudokirchneriella subcapitata) |
| LC50 / 96h | 0.0602 mg/l (oncorhynchus mykiss) |
| EC50 / 48h | 110 mg/l (daphnia magna) |

- 12.2 Persistence and degradability: No information
- 12.3 Bioaccumulative potential: No information
- 12.4 Mobility in soil:
 - Ecotoxicological effects:
 - Remark: Very toxic for fish
 - Additional ecological information:
 - General notes: Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
- 12.5 Results of PBT and vPvB assessment: No information
- 12.6 Other adverse effects: No information

13. Disposal Considerations

13.1 WASTE TREATMENT METHODS: In accordance with local and national regulations.

· Recommendation



After diluting with a suitable inert solid material to 10 %, the product must be supplied to a special treatment (e. g. thermal utilization) under observance of all official regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Waste disposal key:

Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)-number.

Uncleaned packaging:

· Recommendation: This material and its container must be disposed of as hazardous waste.

14. Transport Information

14.1 UN number

3106

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG · IATA | <p>3106 ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE), MARINE POLLUTANT ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)</p> |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR | |
| <ul style="list-style-type: none"> · Class · Label | <p>5.2 (P1) Organic peroxides. 5.2</p> |
| <ul style="list-style-type: none"> · Class · Label | <p>5.2 Organic peroxides. 5.2</p> |
| <ul style="list-style-type: none"> · IATA <ul style="list-style-type: none"> · Class · Label | <p>5.2 Organic peroxides. 5.2</p> |
| <ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA | <p>Void</p> |
| <ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR): | <p>Product contains environmentally hazardous substances: DIBENZOYL PEROXIDE Yes Symbol (fish and tree) Symbol (fish and tree)</p> |
| <ul style="list-style-type: none"> · 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category · Stowage Code · Segregation Code | <p>Warning: Organic peroxides. - F-J,S-R D SW1 Protected from sources of heat. SG35 Stow "separated from" acids. SG36 Stow "separated from" alkalis.</p> |

| | |
|----------------------------------------------------------------------------------|------------------------------------------------|
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · Transport/Additional information: | |
| · ADR | |
| · Limited quantities (LQ) | 500 g |
| · Excepted quantities (EQ) | Code: E0 Not permitted as Excepted Quantity |
| · Transport category | 2 |
| · Tunnel restriction code | D |
| · RID / GGVSEB: | like ADR |
| · IMDG | |
| · Limited quantities (LQ) | 500 g |
| · Excepted quantities (EQ) | Code: E0 Not permitted as Excepted Quantity |

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation for the substance or mixture:

· Directive 2012/18/EU ·

Qualifying quantity (tonnes) for the application of lower-tier requirements: 50 t
Qualifying quantity (tonnes) for the application of upper-tier requirements: 200 t

· National regulations:

Other regulations, limitations and prohibitive regulations · Please note: Take care of the respective local regulations.

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H361 Suspected of damaging fertility or the unborn child. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. |
| · Department issuing SDS: · Contact: | Environment protection / Security of labour Tel: +49 2871 9902-0 E-mail: mail@pergan.com |
| · Abbreviations and acronyms: | RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very bioaccumulative Org. Perox. B: Organic peroxides - Type B Org. Perox. D: Organic peroxides - Type C/D Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Skin Sens. 1: Skin sensitisation - Category 1 Repr. 2: Reproductive toxicity - Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 |

· * Data compared to the previous version altered.