

# Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: **DERBITECH FLEX Catalyst 0,100 kg PE-Beutel in Kiste aus Pappe UN4G**

Article-No.: 26081-008-C

Revision date: 25.03.2015

Version: 6/en



Print date: 10.06.2015

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

### **1.1 Product identifier**

Commercial Product Name **DERBITECH FLEX Catalyst 0,100 kg PE-Beutel in Kiste aus Pappe UN4G**

### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses **hardener**

### **1.3. Details of the supplier of the safety data sheet**

Company : Imperbel N.V./S.A  
Bergensesteenweg 32  
1651 Lot , Belgium  
Telephone: +32 2 334 87 00  
Fax: +32 2 377 01 90  
E-mail: infobe@derbigum.com  
Website: www.derbigum.com

### **1.4. Emergency telephone number**

Emergency telephone : + 32 3 575 55 55 (24h/24h)

IRELAND (REPUBLIC OF)

National Poisons Information Centre

Beaumont Hospital

+35 318 37 99 64

UNITED KINGDOM

National Poisons Information Service

(Newcastle Centre)

0870 600 6266 (UK only)

Regional Drugs and Therapeutics Centre,  
Wolfson Unit

## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 Org. Perox. CD; H242 Eye Irrit. 2; H319 Skin Sens. 1; H317 Repr. 2; H361f Aquatic Acute 1; H400 Aquatic Chronic 3; H412

Classification according to Directive 67/548/EEC / 1999/45/EEC O; R7 Repr.Cat.3; R62 R43 Xi; R36 N; R50/53

### **2.2 Label elements**

Hazard pictogram



GHS02



GHS07



GHS08

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GHS09

Signal word

Danger

Hazardous component(s) to be indicated on label

dibenzoyl peroxide, Dicyclohexyl phthalate

H-statement(s)

H242: Heating may cause a fire.  
H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.  
H361f: Suspected of damaging fertility.  
H410: Very toxic to aquatic life with long lasting effects.

P-statement(s)

P201: Obtain special instructions before use.  
P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
P220: Keep/Store away from clothing/ combustible materials.  
P234: Keep only in original container.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P281: Use personal protective equipment as required.  
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.  
P363: Wash contaminated clothing before reuse.  
P391: Collect spillage.  
P403: Store in a well-ventilated place.  
P411: Store at temperatures not exceeding ... oC/...oF.  
P420: Store away from other materials.

Further information

EUH205: Contains epoxy constituents. May produce an allergic reaction.

## **SECTION 3: Composition/information on ingredients**

### **3.2 Mixture**

Chemical characterization

Mix of Dibenzoylperoxide and Dicyclohexylphthalate

#### **Hazardous ingredients**

Ingredient		Classification (EEC) No 67/548	Concentration
		Classification (EC) 1272/2008	
dibenzoyl peroxide	CAS No.: 94-36-0	E; R3 O; R7 R7 R43 Xi; R36 N; R50/53	45.0 – 50.0 % by weight
	EC-No.: 202-327-6 Index-No.: 617-008-00-0 REACH No.: 01-2119511472-50-XXXX	Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400	
Dicyclohexyl phthalate	CAS No.: 84-61-7	Repr.Cat.3; R62 R43 R53	45.0 – 50.0 % by weight
	EC-No.: 201-545-9 REACH No.: 01-2119978223-34-XXXX	Skin Sens. 1; H317 Repr. 2; H361f Aquatic Chronic 3; H412	

## **SECTION 4: First aid measures**

### **4.1 Description of first aid measures**

General advice

If symptoms persist, call a physician.

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If inhaled	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
In case of skin contact	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, seek medical advice/attention.
In case of eye contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	Rinse mouth. Do NOT induce vomiting. Call a physician immediately.

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

Suitable extinguishing media Carbon dioxide (CO<sub>2</sub>), Dry powder, Dry sand, Water spray, Foam

Extinguishing media which must not be used for safety reasons Halons

#### **5.2 Special hazards arising from the substance or mixture**

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, Benzoic acid, Benzene

#### **5.3 Advice for firefighters**

Special protective equipment for firefighting In the event of fire, wear self-contained breathing apparatus.

Additional information on firefighting Cool closed containers exposed to fire with water spray.

### **SECTION 6: Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions Do not breathe dust. Avoid contact with skin and eyes. Use personal protective equipment.

#### **6.2 Environmental precautions**

Environmental precautions Do not flush into surface water or sanitary sewer system.

#### **6.3 Methods and material for containment and cleaning up**

Methods for cleaning up Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

#### **6.5 Additional information**

Other information Risk of ignition.

### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

Advice on safe handling Wear personal protective equipment. Do not breathe dust. Avoid contact with skin and eyes.

#### **7.2 Conditions for safe storage, including any incompatibilities**

Storage specifications Store in original container. Keep container tightly closed in a dry and well-ventilated place.

TRGS 510 5.2

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Recommended storage temperature 25 °C

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### DIBENZOYL PEROXIDE

Belgium

Long-term exposure value/ mg/m <sup>3</sup>	Source
5	35

Source: 35 - Liste de valeurs limites d'expositions professionnelle aux agents chimiques (11.06.2009)

#### DNEL

Value	Target group	Exposure route	Exposure frequency	Source
11,75 mg/m <sup>3</sup>	Workers	Inhalation	Long term effects	100
6,6 mg/kg	Workers	dermal exposure	Long term effects	100
2,9 mg/m <sup>3</sup>	Consumers	Inhalation	Long term effects	100
3,3 mg/kg	Consumers	dermal exposure	Long term effects	100
1,65 mg/kg	Consumers	Oral	Long term effects	100

Source: 100 - Firmendaten

#### PNEC

Value	Exposure route	Source
0,000602 mg/l	freshwater	100
0,338 mg/kg	freshwater sediment	100
0,0000602 mg/l	marine water	100
0,0338 mg/kg	marine sediment	100
0,35 mg/l	Waste water pretreatment	100
6,67 mg/kg	Oral	100

Source: 100 - Firmendaten

#### Dicyclohexyl phthalate

##### DNEL

Value	Target group	Exposure route	Exposure frequency	Source
35,2 mg/m <sup>3</sup>	Workers	Inhalation	Long term effects systemic	100
0,5 mg/kg	Workers	dermal exposure	Long term effects systemic	100

Source: 100 - Firmendaten

##### PNEC

Value	Exposure route	Source
0,00362 mg/l	freshwater	100
1,06 mg/kg	freshwater sediment	100
0,000362 mg/l	marine water	100
01,06 mg/kg	marine sediment	100
10 mg/l	STP	100
0,21	Soil	100

Source: 100 - Firmendaten

### 8.2 Exposure controls

Respiratory protection

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).

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Remarks:	Recommended Filter type: P 1
Hand protection	
Suitable material:	butyl-rubber Nitriles
Unsuitable material:	Leather gloves
Suitable material:	butyl-rubber Nitriles
Eye protection	Tightly fitting safety goggles
Engineering measures	Ensure adequate ventilation, especially in confined areas.

## **SECTION 9: Physical and chemical properties**

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

Physical state	solid
Form	powdered form whitish
Odour	characteristic
Odour threshold	not determined
pH	not applicable
Melting point [°C] / Freezing point [°C]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Evaporation rate [kg/(s*m <sup>2</sup> )]	not applicable
Flammability (solid, gas)	Heating may cause a fire.
Explosion limits [Vol-%]	
Remarks:	not applicable not determined
Vapour pressure [kPa]	not applicable
Vapour density	not applicable
Density [g/cm <sup>3</sup> ]	1,23 g/cm <sup>3</sup>
Relative density	not determined
Water solubility [g/l]	not determined
Partition coefficient n-octanol /water (log P O/W)	
Remarks:	not determined
Autoinflammability	not auto-flammable
Decomposition temperature [°C]	60 °C
Viscosity, dynamic [kg/(m*s)]	not applicable
Risk of explosion.	Risk of dust explosion.
<b>9.2 Other information</b>	
Ignition temperature [°C]	55 °C
Bulk density [kg/m <sup>3</sup> ]	650 kg/m <sup>3</sup>

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Thermal decomposition Self-Accelerating decomposition temperature (SADT) 60 °C

### 10.4 Conditions to avoid

Conditions to avoid Avoid shock and friction. Temperatures above 25°C can influence the product characteristics.

### 10.5 Incompatible materials

Materials to avoid Rust, Iron, Copper, Acids, Reducing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products Benzoic acid, Benzol

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Hazardous ingredients

##### DIBENZOYL PEROXIDE

Oral toxicity [mg/kg]	Test criterion	Test species	Source
> 5000 mg/kg	LD50	rat	100

Source: 100 - Firmendaten

Inhalative toxicity [mg/l]	Test criterion	Duration of dosage	Test species	Note	Source
24,3 mg/l	LC50	4 hours	rat	OECD Test Guide-line 403	2

Source: 2 - SimChem

LC50 Inhalation 4h for dusts and sprays [mg/l]	Test criterion	Test species	Source
>24,3	LC0	rat	100

Source: 100 - Firmendaten

Irritant effect on skin	No skin irritation
Measuring method	OECD Test Guideline 404
Test species	rabbit
Irritant effect on eyes	Eye irritation, reversibel innerhalb 21 Tage
Measuring method	OECD Test Guideline 405
Test species	rabbit
Sensitization	Skin sensitization
Measuring method	OECD TG 429
Test species	mouse
Carcinogenic effects	Did not show carcinogenic effects in animal experiments.
Mutagenicity	Did not show mutagenic effects in animal experiments.
Reproduction toxicity	No toxicity to reproduction

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Specific target organ toxicity (single exposure) [mg/kg]	Source
no data available	2

Source: 2 - SimChem

Specific target organ toxicity (repeated exposure) [mg/kg]	Source
Animal testing did not show any hazardous effects.	2

Source: 2 - SimChem

## Dicyclohexyl phthalate

Oral toxicity [mg/kg]	Test criterion	Test species	Source
>2001	LD50	rat	100

Source: 100 - Firmendaten

Irritant effect on skin	No skin irritation
Measuring method	OECD 439 Skin irritation
Irritant effect on eyes	No eye irritation
Measuring method	OECD 437 Eye irritation
Sensitization	Skin sensitization
Mutagenicity	negative
Reproduction toxicity	Tests in some animals may indicate that the technical active ingredient may have embryotoxic activity.

Specific target organ toxicity (single exposure) [mg/kg]	Source
no data available	100

Source: 100 - Firmendaten

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Hazardous ingredients

##### DIBENZOYL PEROXIDE

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Source
0,0602	LC50	Oncorhynchus mykiss (rainbow trout)	96 h	OECD Test Guide-line 203	100

Source: 100 - Firmendaten

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Source
0,110	EC 50	Daphnia magna (Water flea)	48 h	OECD Test Guide-line 202	100

Source: 100 - Firmendaten

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Source
0,0711	EC 50	Pseudokirchneriella subcapitata	72 h	OECD Test Guide-line 201	100

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Source: 100 - Firmendaten

Biodegradability                      Biodegradable. 68 %  
Remarks                                inherently biodegradable  
Measuring method                    OECD 301D/ EEC 92/69/V, C.4-E  
Duration                                 28 day(s)

## Dicyclohexyl phthalate

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Remarks	Source
(>2)	LD50	Orange-red killifish	96 h	OECD Test Guideline 203	maximum Solubility	100

Source: 100 - Firmendaten

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Remarks	Source
(>2)	EC 50	Pseudokirchneriella subcapitata	72 h	OECD Test Guideline 201	maximum Solubility	100

Source: 100 - Firmendaten

NOEC (daphnia) [mg/l]	Test species	Exposure duration	Source
0,679	Daphnia magna (Water flea)	21 day(s)	100

Source: 100 - Firmendaten

NOEC (algae) [mg/l]	Test species	Exposure duration	Measuring method	Source
>2	Pseudokirchneriella subcapitata	72 hours	OECD Test Guideline 201	100

Source: 100 - Firmendaten

Biodegradability                      Readily biodegradable.  
Bioaccumulation                      no data available  
Results of PBT characteristics determination                      This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

## 12.6 Other adverse effects

Environmental hazards                      According to the results of tests of biodegradability this product is considered as being readily biodegradable.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Disposal considerations                      According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. The following Waste Codes are only suggestions:

Waste Code                                 160903 - peroxides, for example hydrogen peroxide

## SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	3106	3106	3106
14.3 Transport hazard class(es)	5.2	5.2	5.2

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	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.2 Description of the goods	ORGANIC PEROXIDE TYPE D, SOLID	ORGANISCHES PEROXID, TYP D, FEST	ORGANIC PEROXIDE TYPE D, SOLID
14.2 UN proper shipping name		ORGANIC PEROXIDE TYPE D, SOLID	Organic peroxide type D, solid
Danger releasing substance	dibenzoyl peroxide	dibenzoyl peroxide	dibenzoyl peroxide
Labels	5.2 	5.2 	5.2 - Organic Peroxide 
Category	2		
Factor	3		
Classification Code	P1		
Tunnel restriction code	D		
14.5 Environmental hazards	U - Environmentally hazardous	U - marine pollutant	U - Environmentally hazardous
EmS		F-J;S-R	
Stowage category		D	

## 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code      Not relevant

## SECTION 15: Regulatory information

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

Additional regulations      Denmark PR-No.2394702  
Denmark MAL-Code-Number 0-4  
Additionally, observe any national regulations!

## SECTION 16: Other information

Relevant R-phrases      R3: Extreme risk of explosion by shock, friction, fire or other sources of ignition.  
R36: Irritating to eyes.  
R43: May cause sensitisation by skin contact.  
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R53: May cause long-term adverse effects in the aquatic environment.  
R62: Possible risk of impaired fertility.  
R7: May cause fire.

Relevant H-phrases      H241: Heating may cause a fire or explosion.  
H242: Heating may cause a fire.  
H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.  
H361f: Suspected of damaging fertility.  
H400: Very toxic to aquatic life.  
H412: Harmful to aquatic life with long lasting effects.

Wording of the hazard classes      Org. Perox.: Organic peroxide  
Eye Irrit.: Serious eye irritation  
Skin Sens.: Skin sensitization  
Repr.: Reproductive toxicity  
Aquatic Acute: Hazardous to the aquatic environment  
Aquatic Chronic: Hazardous to the aquatic environment

Modifications since last version      Modifications of the previous version are denoted with an asterisk (\*).

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Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

Classification	evaluation
Org. Perox. CD; H242	
Eye Irrit. 2; H319	
Skin Sens. 1; H317	
Repr. 2; H361f	
Aquatic Acute 1; H400	
Aquatic Chronic 3; H412	