

## 1. IDENTIFICATION OF THE SUBSTRATE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Trade name/designation: Catalyst.

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

Relevant identified uses: Hardener.  
Recommended restrictions: Industrial uses only.

### 1.3 Manufacturer/Supplier

Supplier:  
Alumasc Building Products Ltd  
White House Works, Bold Road, Sutton, St Helens, Merseyside, United Kingdom, WA9 4JG  
Tel: +44 (0)1744 648400  
e-mail: [technical@alumascroofing.com](mailto:technical@alumascroofing.com)

### 1.4 Manufacturer/Supplier

Emergency telephone: 01744 648 400 - (Mon-Thurs – 08.30-17.00 Fri – 08.30-16.00)




## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008:

Org. Perox. D; H242 : Eye Irrit. 2; H319 : Skin Sens. 1; H317 : Aquatic Acute 1; H400 : Aquatic Chronic 1; H410.

### 2.2 Labelling according to Regulation (EU) 1272/2008

Hazard pictures:			
	GHS02	GHS07	GHS09
Signal word:	Danger.		
Hazardous component(s) to be indicated on label:	Dibenzoyl Peroxide, Dicyclohexyl Phthalate.		
Hazard statements:	H242: Heating may cause a fire. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H410: Very toxic to aquatic life with long lasting effects.		
Precautionary statements:	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking. P234: Keep only in original packaging. P235: Keep cool. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash it before reuse. P337+P313: If eye irritation persists: Get medical advice/attention. P391: Collect spillage. P403: Store in a well-ventilated place. P420: Store separately.		

### 3. COMPOSITION AND INFORMATION ABOUT THE COMPONENTS

#### 3.1 -

#### 3.2 Mixture

##### Chemical characterization:

Benzoylperoxyde, Phlegmated with Plasticizer.

##### Hazardous ingredients:

Ingredient		Classification (EC) 1272/2008	M-factor	Concentration
Ethylene Dibenzoate	CAS No: 94-49-5 EC-No: 202-338-6 REACH No: 01-2120759933-41-XXXX	Aquatic Chronic 2; H411	Acute: 1	45.0 - 50.0 % by weight
Dibenzoyl Peroxide	CAS No: 94-36-0 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 Aquatic Chronic 1; H410	Acute: 10 Chronic: 10	45.0 - 50.0 % by weight

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

General advice:	If symptoms persist, call a doctor.
If inhaled:	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
In case of skin contact:	Wash with plenty of soap and water. If skin irritation occurs, get 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 doctor immediately.

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

##### Suitable extinguishing media:

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

##### Unsuitable extinguishing media:

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 fire-fighters

In the event of fire, wear self-contained breathing apparatus.  
Cool closed containers exposed to fire with water spray.

### 6. ACCIDENTAL RELEASE MEASURES

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

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

## 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

## 6.3 Methods and materials for containment and 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).

## 6.4 -

## 6.5 Additional information

Risk of ignition.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for 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

Organic peroxides: Type: OP II

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

TRGS 510: 3.

Recommended storage temperature: 25°C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Ethylene Dibenzoate:

##### DNEL:

Value	Target group	Exposure route	Exposure frequency	Source
10,6 mg/m <sup>3</sup>	Workers	Inhalation	Long-term effects systemic	100
3 mg/m <sup>3</sup>	Workers	Skin	Long-term effects systemic	100

Source: 100 – Firmendaten.

##### PNEC:

Value	Exposure route	Source
0,0073 mg/l	Freshwater	100
0,00073 mg/l	Seawater	100
2,23 mg/kg	Freshwater sediment	100
0,223 mg/kg	Marine sediment	100
128 mg/l	Wastewater pretreatment	100
0,44 mg/kg	Soil	100

Source: 100 – Firmendaten.

#### Dibenzoyl Peroxide:

Long-term exposure value/ mg/m <sup>3</sup>	Source
5	19

Source: 19 - EH40/2005 Workplace exposure limits (2011).

**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	Wastewater pretreatment	100
6,67 mg/kg	Oral	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).

Remarks: Recommended filter type: P1.

Hand protection:

Suitable material: Butyl-rubber, Nitriles.  
Unsuitable material: Leather gloves.

Eye protection: Tightly fitting safety goggles.

Engineering measures: Ensure adequate ventilation, especially in confined areas.

**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-%]:	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):	Not determined.
Auto-inflammability:	Not auto-flammable.
Decomposition temperature [°C]:	60°C.
Viscosity, dynamic [kg/(m*s)]:	Not applicable.
Risk of explosion:	Risk of dust explosion.

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**9.2 Other information**

Ignition temperature: 55°C.  
Bulk density [kg/m<sup>3</sup>]: 650 kg/m<sup>3</sup>.

**10. STABILITY AND REACTIVITY**

**10.1 Reactivity**

Self-accelerating decomposition temperature (SADT) 60°C.

**10.2 -**

**10.3 -**

**10.4 Conditions to avoid**

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

**10.5 Materials to avoid**

Rust, Iron, Copper, Acids, Reducing agents.

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Hazardous ingredients:**

**Ethylene Dibenzoate:**

Oral toxicity [mg/kg]	Test criterion	Test species	Measuring Method	Source
> 2001 mg/kg	LD50	Rat	OECD Test Guideline 416	100

Source: 100 – Firmendaten.

Irritant effect on skin:	No skin irritation.
Measuring method:	OECD Test Guideline 404.
Test species:	Rabbit.
Exposure duration:	4 hours.
Irritant effect on eyes:	No eye irritation.
Measuring method:	OECD Test Guideline 405.
Test species:	Rabbit.
Exposure duration:	1 hours.
Sensitization:	No known effect.
Measuring method:	OECD 429.
Test species:	Mouse.
Remarks:	Skin sensitization.
Carcinogenic effects:	No known effect.
Mutagenicity:	No known effect.
Reproduction toxicity:	No known effect.

**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	Test species	Note	Source
24,3 mg/l	LC50	Rat	OECD Test Guideline 403	100

Source: 100 – Firmendaten.

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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.
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.

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

Source: 100 – Firmendaten.

Specific target organ toxicity (repeated exposure) [mg/kg]	Source
Animal testing did not show any hazardous effects	100

Source: 100 – Firmendaten.

## 12. ECOLOGICAL INFORMATION

### 12.1 Ecological information

#### Toxicity:

##### Ethylene Dibenzoate:

Toxicity to fish [mg/l]	Test criterion	Test species	Measuring method	Exposure duration	Source
>0,434	LC50	Brachydaniorerio (zebra fish)	OECD Test Guideline 203	96 h	100

Source: 100 – Firmendaten.

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Source
1,4	EC 50	Daphnia magna (Water flea)	21 days	OECD TG 211	100

Source: 100 – Firmendaten.

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Source
>0,87	ErC50	Pseudokirchneriella subcapitata	72 h	OECD Test Guideline 201	100

Source: 100 – Firmendaten.

NOEC (fish) [mg/l]	Test species	Source
0,073	Brachydanio rerio (zebra fish)	100

Source: 100 – Firmendaten.

NOEC (daphnia) [mg/l]	Test species	Measuring method	Source
0,065	Daphnia magna (water flea)	OECD TG 211	100

Source: 100 – Firmendaten.

NOEC (algae) [mg/l]	Test species	Measuring method	Source
0,045	Pseudokirchneriella subcapitata	OECD Test Guideline 201	100

Source: 100 – Firmendaten.

Results of PBT characteristics determination: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

**Dibenzoyl Peroxide:**

Toxicity to fish [mg/l]	Test criterion	Test species	Measuring method	Exposure duration	Source
0,0602	LC50	Oncorhynchus mykiss (rainbow trout)	OECD Test Guideline 203	96 h	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 Guideline 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 Guideline 201	100

Source: 100 – Firmendaten.

Bioaccumulation: Bioaccumulation is unlikely.  
Results of PBT characteristics determination: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

**12.2 -**

**12.3 -**

**12.4 -**

**12.5 -**

**12.6 Other adverse effects**

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

**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: 16 09 03\* - peroxides, for example hydrogen peroxide.

Uncleaned empty packaging: -

**14. TRANSPORT INFORMATION**

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
<b>14.1 UN-No</b>	3106	3106	3106
<b>14.2 Description of the goods</b>	ORGANIC PEROXIDE TYPE D, SOLID	ORGANIC PEROXIDE, TYPE D, SOLID	ORGANIC PEROXIDE TYPE D, SOLID
<b>14.3 UN proper shipping name</b>		ORGANIC PEROXIDE TYPE D, SOLID	ORGANIC PEROXIDE TYPE D, SOLID
<b>14.4 Transport hazard class(es)</b>	5.2	5.2	5.2
<b>Danger releasing substances</b>	Dibenzoyl Peroxide	Dibenzoyl Peroxide	Dibenzoyl Peroxide

<b>14.5 Packaging group</b>			
<b>14.6 Environmental hazards</b>	U - Environmentally hazardous	U - Marine pollutant	U - Environmentally hazardous
<b>Labels</b>	5.2  	5.2  	5.2  
<b>Category</b>	2		
<b>Factor</b>	3		
<b>Classification code</b>	P1		
<b>Tunnel restriction code</b>	D		
<b>EmS</b>		F-J; S-R	
<b>Stowage category</b>		D	

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

Not relevant.

**14.8 Other information**

Packaging type OP7.

**15. REGULATORY INFORMATION**

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

**Additional regulations:**

Additionally, observe any national regulations!

**16. OTHER INFORMATION**

**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.
H400:	Very toxic to aquatic life.
H410:	Very toxic to aquatic life with long lasting effects.
H412:	Toxic to aquatic life with long lasting effects.

**Wording of the hazard classes:**

Aquatic Chronic:	Hazardous to the aquatic environment.
Eye irrit.:	Serious eye irritation.
Skin Sens.:	Skin sensitization.
Aquatic Acute:	Hazardous to the aquatic environment.

**Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]:**

Classification	Evaluation
H242: Heating may cause a fire	The product was tested according to the official UN test methods: the BAM Fallhammer test for impact sensitivity and the BAM friction sensitivity test. Result: Slightly sensitive.
Org. Perox. D; H242	
Eye Irrit. 2; H319	
Skin Sens. 1; H317	
Aquatic Acute 1; H400	
Aquatic Chronic 1; H410	



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