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Article-No.: GB81005010; GB81005025; GB81005030

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

#### 1.1 Product identifier

Commercial Product Name **Bauder Catalyst (all volumes)** 

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

Relevant identified uses hardener

Recommended restrictions Reserved for industrial and professional use.

# 1.3 Details of the supplier of the safety data sheet

Company designation Bauder Ltd.

> 70 Landseer Road Ipswich IP3 0DH

Telephone: +44 (0)1473 257671

#### 1.4 Emergency telephone number

NPIS (National Poisons Information Service): 0344 892 0111 (for medical professionals only). For medical advice, members of the public should contact NHS 111

# SECTION 2: Hazards identification

## 2.1 Classification of the substance or mixture

\* Classification according to Regulation (EC) No. 1272/2008

Aquatic Chronic 1; H410

#### 2.2 Label elements

\* Hazard pictogram



GHS02



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

GHS07



GHS09

Signal word Danger

Hazardous component(s) to be in-

dicated on label

dibenzoyl peroxide

\* H-statement(s) 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.

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\* P-statement(s) P210: Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. 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/hearing 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.

#### 2.3 Other hazards

Hazard precautions Risk of dust explosion.

# SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical characterization Benzoylperoxyde, phlegmated with plasticizer

### **Hazardous ingredients**

Ingredient	Numbers	Classification (EC) 1272/2008	M- factor	Concentra-
				tion
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.: 617-008-00-0REACH 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

# **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice Move out of dangerous area. Take off all contaminated clothing

immediately. Do not leave the victim unattended. Show this safety data sheet

to the doctor in attendance.

If inhaled If you feel unwell, seek medical advice (show the label where possible).

In case of skin contact Wash off immediately with soap and plenty of water. If skin irritation occurs,

seek medical advice/attention.

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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 (CO2), Foam, Water spray, Dry powder

Extinguishing media which mustnot

be used for safety reasons

High volume water jet

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

Special exposure hazards arising from the substance or prepara- tion

itself, its combustion prod- ucts, or released gases

Hazardous decomposition products formed under fire conditions.

## 5.3 Advice for firefighters

Special protective equipment for

firefighting

In the event of fire, wear self-contained breathing apparatus.

Additional information on fire-

fighting

Fire residues and contaminated fire extinguishing water must be dis- posed of in accordance with local regulations. Do not allow run-off fromfire fighting to enter

drains or water courses.

# **SECTION 6: Accidental release measures**

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

Personal precautions Avoid dust formation. 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 Avoid dust formation. Use mechanical handling equipment. Clean

contaminated surface thoroughly. Dispose of in accordance with local regulations.

# 6.4 Reference to other sections

Reference to other sections Disposal considerations See also section 13

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# 6.5 Additional information

Other information Treat recovered material as described in the section "Disposal

considerations".

# SECTION 7: Handling and storage

# 7.1 Precautions for safe handling

Advice on safe handling Avoid dust formation. Wear personal protective equipment. Handle and

open container with care. Avoid contact with skin and eyes.

Precautions Smoking, eating and drinking should be prohibited in the application area. For

personal protection see section 8. Observe label precautions.

## 7.2 Conditions for safe storage, including any incompatibilities

Storage space and container re-

quirements

Keep in properly labelled containers. Containers which are opened must

be carefully resealed and kept upright to prevent leakage.

Storage specifications Organic peroxides Type: OP II

Keep in a dry place.

**TRGS 510** 5.2

# SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Ethylene dibenzoate

*DNEL	Target group	Exposure route	Exposure frequency	Source
10,6 mg/m <sup>3</sup>	Workers	Inhalation	Long term effects systemic	Company data
3 mg/kg	Workers	Skin	Long term effects systemic	Company data

*PNEC	Exposure route	Source
0,0073 mg/l	freshwater	Company data
0,00073 mg/l	seawater	Company data
2,23 mg/kg	freshwater sediment	Company data
0,223 mg/kg	marine sediment	Company data
128 mg/l	Waste water pretreatment	Company data
0,44 mg/kg	Soil	Company data

dibenzoyl peroxide

Great Britain	
Long-term exposure value/ mg/m3	Source
5	EH40/2005 Workplace exposure limits (2011)

DNEL	Target group	Exposure route	Exposure frequency	Source
11,75 mg/m³	Workers	Inhalation	Long term effects	Company data
6,6 mg/kg	Workers	dermal exposure	Long term effects	Company data

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2,9 mg/m <sup>3</sup>	Consumers	Inhalation	Long term effects	Company data
3,3 mg/kg	Consumers	dermal exposure	Long term effects	Company data
1,65 mg/kg	Consumers	Oral	Long term effects	Company data

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

#### 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). Half mask with aparticle

filter P2 (EN 143).

Hand protection Protective gloves complying with EN 374.Please observe the instructions

regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the

product is used, such as the danger of cuts, abrasion, and the contact time.

Unsuitable material woven fabric, Leather gloves

Suitable material Nitriles

Eye protection Tightly fitting safety goggles

Skin and body protection Wear suitable protective equipment. Long sleeved clothing

General protective and hygiene

measures

Do not breathe dust. Avoid contact with the skin and the eyes. Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Keep away from food, drink and animal feeding stuffs.

Engineering measures Provide appropriate exhaust ventilation at machinery and at places where

dust can be generated.

# SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

Physical state solid

Odour threshold Product specific

Initial boiling point [°C] and boiling not applicable

range [°C]

Evaporation rate [kg/(s m²)] not applicable

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Explosion limits [Vol-%] not applicable

Angabe des Herstellers ca.30 g/m3 Explosion limits [g/m³]

Note Die Herstellerangabe ist der allgemeine Richtwert für feste organische

Verbindungen.

Vapour pressure [kPa] not applicable

Vapour density not applicable

Partition coefficient n-octanol /water

(log P O/W)

not determined

Autoignition temperature [°C] not determined Viscosity, dynamic [kg/(m s)] not applicable Oxidising properties not determined

# SECTION 10: Stability and reactivity

#### 10.4 Conditions to avoid

Conditions to avoid None under normal processing.

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

## \*Oral toxicity [mg/kg]

#### Hazardous ingredients

*Ethylene dibenzoate						
Value	Test criterion	Test species	Measuring method	Source		
>2001 mg/kg	LD50	rat	OECD Test Guideline 416	Company data		

dibenzoyl peroxide			
Value	Test criterion	Test species	Source
> 5000 mg/kg	LD50	rat	Company data

#### Inhalative toxicity [mg/l]

# **Hazardous ingredients**

dibenzoyl peroxide						
Value	Test criterion	Test species	Note	Source		
24,3 mg/l	LC50	rat	OECD Test Guideline 403	Company data		

# LC50 Inhalation 4h for dusts and sprays [mg/l]

### **Hazardous ingredients**

dibenzoyl peroxide			
Value	Test criterion	Test species	Source
>24,3 mg/l	LC0	rat	Company data

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#### \*Irritant effect on skin

#### **Hazardous ingredients**

*Ethylene dibenzoate					
Value	Measuring method	Test species	Exposure duration [h]	Source	
No skin irritation	OECD Test Guideline 404	rabbit	4 hours	Company data	

dibenzoyl peroxide			
Value	Measuring method	Test species	Source
No skin irritation	OECD Test Guideline 404	rabbit	Company data

#### \*Irritant effect on eyes

#### **Hazardous ingredients**

*Ethylene dibenz	oate			
Value	Measuring method	Test species	Exposure duration [h]	Source
No eye irritation	OECD Test Guideline 405	rabbit	1 hours	Company data

dibenzoyl peroxide			
Value	Measuring method	Test species	Source
Eye irritation, revesibel	OECD Test Guideline	rabbit	Company data
innerhalb 21 Tage	405		

#### \*Sensitization

# Hazardous ingredients

*Ethylene dibenz				
Value	Measuring method	Test species	Remarks	Source
No known effect.	OECD 429	mouse	Skin sensitization	Company data

dibenzoyl peroxide			
Value	Measuring method	Test species	Source
Skin sensitization	OECD TG 429	mouse	Company data

#### \*Carcinogenic effects

# Hazardous ingredients

*Ethylene dibenzoate	
Value	Source
No known effect.	Company data

dibenzoyl peroxide	
Value	Source
Did not show carcinogenic effects in animal experiments.	Company data

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#### \*Mutagenicity

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Hazardous ingredients

*Ethylene dibenzoate	
Value	Source
No known effect.	Company data

dibenzoyl peroxide	
Value	Source
Did not show mutagenic effects in animal experi-	Company data
ments.	

#### \*Reproduction toxicity

#### **Hazardous ingredients**

*Ethylene dibenzoate	
Value	Source
No known effect.	Company data

dibenzoyl peroxide	
Value	Source
No toxicity to reproduction	Company data

#### Specific target organ toxicity (single exposure) [mg/kg]

#### **Hazardous ingredients**

dibenzoyl peroxide	
Value	Source
no data available	Company data

# Specific target organ toxicity (repeated exposure) [mg/kg]

### Hazardous ingredients

dibenzoyl peroxide	
Value	Source
Animal testing did not show any hazardous effects.	Company data

#### 11.2 Additional information

Experience in practice May cause sensitization by inhalation.

Other information (chapter 11.) No toxicology information is available.

# SECTION 12: Ecological information

### 12.1 Toxicity

\*Toxicity to fish [mg/l]

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Hazardous ingredients

*Ethylene dibenzoate						
Value	Test criteri-	Test species	Measuring	Exposure	Source	
	on		method	duration [h]		
(>0,434) mg/l	LC50	Brachydanio rerio (zebra fish)	OECD Test Guideline 203	96 h	Company data	

Value	Test criteri- on	Test species	Measuring method	Exposure duration [h]	Source
0,0602 mg/l	LC50	Oncorhynchu smykiss (rainbow trout)	OECD Test Guideline 203	96 h	Company data

### \*Toxicity to daphnia [mg/l]

### Hazardous ingredients

*Ethylene dibenzoate						
Value	Test criterion	Test species	Exposure duration [h]	Measuring method	Source	
1,4 mg/l	EC50	Daphnia magna (Water flea)	21 day(s)	OECD TG 211	Company data	

dibenzoyl pe	dibenzoyl peroxide						
Value	Test criterion	Test species	Exposure duration [h]	Measuring method	Source		
0,110 mg/l	EC50	Daphnia magna (Water flea)	48 h	OECD Test Guideline 202	Company data		

### \*Toxicity to algae [mg/l]

#### Hazardous ingredients

*Ethylene dibenzoate						
Value	Test criterion	Test species	Exposure duration [h]	Measuring method	Source	
(>0,87) mg/l	ErC50	Pseudokirch- neriella sub- capitata	72 h	OECD Test Guideline 201	Company data	

dibenzoyl peroxide						
Value	Test criterion	Test species	Exposure duration [h]	Measuring method	Source	
0,0711 mg/l	EC50	Pseudokirch- neriella sub- capitata	72 h	OECD Test Guideline 201	Company data	

### \*NOEC (fish) [mg/l] **Hazardous ingredients**

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*Ethylene dibenzoate		
Value	Test species	Source
0,073 mg/l	Brachydanio rerio (zebra fish)	Company data

#### \*NOEC (daphnia) [mg/l]

# Hazardous ingredients

Tiuzai acac ingreate				
*Ethylene dibe	nzoate			
Value	Test species	Measuring method	Exposure dura- tion [h]	Source
0,65 mg/l	Daphnia magna (Water flea)	OECD TG 211	21 day(s)	Company data

### \*NOEC (algae) [mg/l]

#### Hazardous ingredients

*Ethylene dibenz	oate			
Value	Test species	Measuring method	Exposure duration [h]	Source
0,045 mg/l	Pseudokirchner- iella subcapitata	OECD Test Guideline 201	72 h	Company data

# 12.2 Persistence and degradability

#### \*Biodegradability

#### **Hazardous ingredients**

*Ethylene dibenz	*Ethylene dibenzoate					
Value	Duration	Measuring method	Method of analysis	Source		
Readily biodegradable.81 %	28 day(s)	Closed Bottle test	OECD 301D/ EEC 92/69/V, C.4-E	Company data		

dibenzoyl peroxi	de			
Value	Duration	Measuring	Remarks	Source
		method		
Biodegradable.	28 day(s)	OECD 301D/ EEC	inherently	Company data
68 %		92/69/V, C.4-E	biodegradable	

# 12.3 Bioaccumulative potential

#### Bioaccumulation

#### Hazardous ingredients

dibenzoyl peroxide	
Value	Source
3.2 Bioaccumulation is unlikely.	Company data

### 12.5 Results of PBT and vPvB assessment

\*Results of PBT characteristics determination

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**Hazardous ingredients** 

*Ethylene dibenzoate	*Ethylene dibenzoate		
Value	Source		
This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).	Company data		

dibenzoyl peroxide		
Value	Source	
This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).	Company data	

#### 12.6 Other adverse effects

Further information on ecology We have no quantitative data concerning the ecological effects of this

product.

# **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 06 03 16 metallic oxides other than those mentioned in 06 03 15

Uncleaned empty packaging Empty containers should be taken for local recycling or waste disposal.

Dispose of in accordance with local regulations.

# **SECTION 14: Transport information**

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	3106	3106	3106
14.2 Description of the	ORGANIC PEROXIDE TYPE	ORGANISCHES PEROXID,	ORGANIC PEROXIDE TYPE
goods	D, SOLID	TYP D, FEST	D, SOLID
UN proper shipping name		ORGANIC PEROXIDE TYPE D, SOLID	Organic peroxide type D, solid
14.3 Transport hazard class(es)	5.2	5.2	5.2
Danger releasing substance	dibenzoyl peroxide	dibenzoyl peroxide	dibenzoyl peroxide
14.5 Environmental hazards	U - Environmentally hazardous	U - marine pollutant	U - Environmentally hazardous
Labels	5.2	5.2	5.2
	<b>L</b>	¥.	<u>*</u>
Category	2		
Factor	3		
Classification Code	P1		
Tunnel restriction code	D		
EmS		F-J;S-R	
Stowage category		D	

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### 14.6 Special precautions for user

**Precautions** No special measures are required.

# 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to

Not relevant

Annex II of MARPOL and the IBC

Code

# SECTION 15: Regulatory information

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

Additional regulations Additionally, observe any national regulations!

MAL-Code

# **SECTION 16: Other information**

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

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.

H411: Toxic to aquatic life with long lasting effects.

Wording of the hazard classes Aquatic Chronic: Hazardous to the aquatic environment

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

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