

Safety Data Sheet - Lining Catalyst



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Revision No: 1
Issue Date: 15.06.21

1. IDENTIFICATION OF THE SUBSTANCE /MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	Product Name	Lining Catalyst
	Trade Name	PEROXAN BP-40 LS
	Chemical Family	Dibenzoylperoxide as suspension 40 % in plasticizers
1.2 Relevant identified uses of the substance or mixture and uses advised against	Application of the substance / the preparation	For industrial use Reaction initiator Hardening agent/Curing agent
	Uses advised against	No information available
1.3. Details of the supplier of the safety data sheet	Company	S1E Ltd
	Address	Cooper House, Unit 2 Spring Hill Road, Park Springs, Grimethorpe, Barnsley S72 7BQ
	Email	contact@s1e.co.uk
	Website	www.s1e.co.uk
	Telephone	+44 (0) 1226 397 015
	Telefax	+44 (0) 1226 447 300
	Emergency Tel. No.	+44 (0) 1235 239670
1.4 Details of the manufacturer	Company	PERGAN GmbH
	Address	Hilfsstoffe für industrielle Prozesse, Schlavenhorst 71, D-46395 Bocholt, Germany
	Telephone	++49-2871-9902-0
	Telefax	++49-2871-9902-50
	Information department	Environment protection / Security of labour
	Emergency Tel. No.	++49-2871-9902-0/ ++49-2871-21030

2. HAZARDS IDENTIFICATION

2.1 Hazard Description



Xi Irritant



O Oxidising

2.2 Information pertaining to particular dangers for man and environment

R 7 May cause fire.

R 36 Irritating to eyes.

R 43 May cause sensitisation by skin contact

2.3 Classification system

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Dangerous Components

Chemical Name	EINECS	CAS No.	Weight %	Risk Phrases - refer to Section 16
Dibenzoyl peroxide	202-851-5	94-36-0	25 - 42	Xi, E; R 2-36-43
Dimethyl phthalate	205-011-6	131-11-3	25 - 42	

For the full text of the Statements mentioned in this Section, see Section 16

4. FIRST AID MEASURES

General information	Personal protection for the First Aider.
After inhalation	Take affected persons into fresh air and keep quiet
After skin contact	Immediately remove contaminated clothing. Immediately wash with water and soap and rinse thoroughly.
After eye contact	Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing	Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

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

Unsuitable extinguishing media Water with full jet.

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO), Carbon dioxide, cracked hydrocarbons

5.3 Protective Equipment

Wear self-contained respiratory protective device.

5.4 Additional Information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Keep away from ignition sources
Remove persons from danger area

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government regulations.

6.4 Additional information

In case of large spillage the environmental authority should be informed.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from heat and direct sunlight.
Do not refill residue into storage receptacles.
Restrict the quantity stored at the work place.
Do not smoke.
Avoid contact with skin and eyes.
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).

Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.



7. HANDLING AND STORAGE CONT'D.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: Danger of explosion in closed containers.

Information about storage in one common storage facility:

It is allowed to store organic peroxides together only with the following classes of the IMDG-Code:

Class 4.1 - Flammable solids

Class 5.2 - Organic peroxides

Class 9 - Miscellaneous dangerous substances and articles

Storage areas should be selected in accordance with all local laws.

Further information about storage conditions: Store in a cool place.

Protect from contamination.

Prevent from drying out.

Storage areas should be selected in accordance with all local laws.

Recommended storage temperature (To maintain quality): 5 - 25° C

Storage class 5.2

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems No further data; see item 7.

Components with limit values that require monitoring at the workplace: 131-11-3 Dimethyl phthalate

OES Short-term value: 10 mg/m³
Long-term value: 5 mg/m³

Additional information The lists that were valid during the creation were used as basis.

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures should be adhered to when handling chemicals.
If a contact with the eyes and skin is possible the specified protective measures has to be used. Use skin protection.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with skin, eyes, clothing.

Breathing equipment

not required

Protection of hands

Protective gloves

Material of gloves

PVA gloves

Fluorocarbon rubber (Viton)

Butyl rubber, BR

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.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

As protection from splashes gloves made of the following materials are suitable

Neoprene gloves

Nitrile rubber, NBR

Eye protection

Tightly sealed goggles

Body protection

Apron, Protective suit

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form	Suspension
Colour	white to light yellow
Odour	weak
Melting Point (°C)	undetermined
Boiling point/boiling range (°C)	undetermined
Flash Point (°C)	not applicable
Flammability (solid/gaseous)	not determined
Ignition temperature:	> + 60°C
Decomposition temperature	

9.1 Information on basic physical and chemical properties

Self igniting	Product is not selfigniting.
Danger of explosion	Product does not present an explosion hazard.
Explosion limits:	
Lower:	not determined
Upper:	not determined
Density at 20°C	1.15 g/cm ³
Solubility in / Miscibility with Water	slightly soluble
Segregation coefficient (n-octanol/water)	not determined

10. STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided	Rapid decomposition by heating (e. g. direct sunlight or heater). No decomposition if used according to specifications
Materials to be avoided	Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-metal compounds and amines).
Dangerous reactions	Self accelerating decomposition above > + 60 °C.
Dangerous products of decomposition	Hydrocarbons, carbondioxide and -monoxid. No hazardous decomposition products if used and stored according to specifications.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD/LC50 values that are relevant for classification: 94-36-0 Dibenzoyl peroxide
Oral LD50	> 5000 mg/kg (Rat)
Inhalation LC50	> 22.4 mg/l (Rat)
Skin Contact	No irritant effect
Eye Contact	Irritating effect
Sensitisation	Sensitization possible through skin contact.
Additional toxicological information	The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant



12. ECOLOGICAL INFORMATION

12.1 Aquatic Toxicity	94-36-0 Dibenzoyl peroxide
	EC50 0.83 mg/l (Algatoxicity) 35 mg/l (Activated sludge)
	EC50/48 h 2.9 mg/l (Daphnia magna)
	LC50/96 h 2 mg/l (Poecilia reticulata)
	NOEC/96 h 0.7 mg/l (Poecilia reticulata)
12.2 Additional ecological information	Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. The product is stable in water. It can be separated from water mechanically. The water can be disposed of in a biological water treatment plant. A degradation activity of activated sludge is not to be expected.

13. DISPOSAL CONSIDERATIONS

Recommendation	Must be specially treated adhering to official regulations.
EWC Waste Disposal No	16 00 00 WASTES NOT OTHERWISE SPECIFIED IN THE LIST 16 09 00 oxidising substances 16 09 03 peroxides, for example hydrogen peroxide
Uncleaned packagings: Recommendation	Packagings that cannot be cleansed are to be disposed of in the same manner as the product. Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

14. TRANSPORT INFORMATION

ADR/RID		IMDG/IMO	
ADR/GGVS	5.2 (P1) Organic peroxides.	IMDG Class	5.2
UN-No	3107	UN-No	3107
Proper Shipping Name	ORGANIC PEROXIDE TYPE E, LIQUID (Dibenzoyl peroxide)	Proper Shipping Name	ORGANIC PEROXIDE TYPE E, LIQUID (Dibenzoyl peroxide)
Packing Group	II	Packing Group	II
Label	5.2	Label	5.2
Description of goods	3107 ORGANIC PEROXIDE TYPE E, LIQUID (Dibenzoyl peroxide)	EmS-No	F-J,S-R
RID/GGVE	see ADR	Marine pollutant	No

14. TRANSPORT INFORMATION CONT'D.

Air Transport ICAO-TI &
IATA-DGR



ICAO/IATA Class	5.2
UN-No	3107
Proper Shipping Name	ORGANIC PEROXIDE TYPE E, LIQUID (Dibenzoyl peroxide)
Packing Group	II
Label	5.2

15. REGULATORY INFORMATION

Markings according to EU guidelines

Markings on the basis of internal knowledge

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

Code letter and hazard designation
of product



Xi Irritant



O Oxidising

Hazard-determining components of
labelling

Dibenzoyl peroxide

Risk phrases

7 May cause fire.
36 Irritating to eyes.
43 May cause sensitisation by skin contact.

Safety phrases

3/7 Keep container tightly closed in a cool place.
14 Keep away from dirt, rust, chemicals in particular concentrated acids,
alkalis and accelerators (e. g. heavy metal
compounds and amines).
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
50 Do not mix with peroxide-accelerators or reducing agents.
60 This material and its container must be disposed of as hazardous waste.

National regulations: German

Information about limitation of use

Act on the safety of the working youth (12.04.1976).

Disturbance regulations

Critical quantity values according to the regulations on accidents should be
adhered to.

15. REGULATORY INFORMATION CONT'D.

Technical instructions (air)	Class	Share in %
	III	77-80
Water hazard class	Water hazard class 1 (Self-assessment) (German regulation): slightly hazardous for water.	
Other regulations, limitations and prohibitive regulations		
UVV: German	"General regulations" (BGV A1, German) "Organic peroxide" (BGV B4, German) "Handling with hazardous substances" (BGV B1, German)	
BG-notice sheet: German	Data sheets of Berufsgenossenschaft (German): BGI 752 "Organic peroxides" (German) BGI 564 "Handling with harmful materials" (German) BGI 660 "Measures of work protection by handling with dangerous substances" (German)	
Law for explosives: German	Not applicable	
Storage classification/Classification of danger: German	Classification of danger II	

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 R-phrases

- 2 Risk of explosion by shock, friction, fire or other sources of ignition.
- 36 Irritating to eyes.
- 43 May cause sensitisation by skin contact.

Training hints

- Training on storage of organic Peroxides.
- Training on handling of organic Peroxides.
- Training on disposal of organic Peroxides.