

Liquid Roofing Systems Ltd PreesGreen Shropshire SY13 2BN Tel: 01948 841 877 Fax: 01948 841 854 Web: Irs-systems.co.uk

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

1.1 Product Identifier	Trade Name: LRS Catalyst
1.2 Relevant identified uses of the substance or mixture and uses advised against	s No further relevant information available.
1.3 Application of the substance / the preparation	Catalyst
1.4 Details of the supplier of the safety data sheet	Liquid Roofing Systems Ltd, Prees Green, Whitchurch, Shropshire SY13 4QL Tel.: 01948 841 877 Fax.: 01948 841 854 e-mail: info@lrs-systems.co.uk
1 E Eurther information obtainable from	
1.5 Further information obtainable from	Environmental department 01948 841 877
1.6 Emergency telephone number lazards Identification	01948 841 877
2.1 Classification of the substance or mixture according to Regula	ation (EC) No 1272/2008
Org. Perox. CD	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 3	H412 Harmful to aquatic life with long lasting effects.
Classification according to Directive 67/548/EEC or Directive 199	9/45/EC
Xn; Harmful R62	Possible risk of impaired fertility.
Xi; Irritant R36	Irritating to eyes.
Xi; Sensitising R43	May cause sensitisation by skin contact.
O; Oxidising R7	May cause fire.
Information concerning particular hazards for human and environment	The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
Classification system	The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
2.2 Label Elements	
Labelling according to Regulation (EC) No 1272/2008	The product is classified and labelled according to the CLP regulation.
Hazard Pictograms	GHS02 GHS07 GHS08 GHS09
Signal Word	Danger
Hazard-determining components of labelling	dicyclohexyl phthalate and dibenzoyl peroxide
Hazard Statements	H242 Heating may cause a fire.
	H319 Causes serious eye irritation.
	H317 May cause an allergic skin reaction.
	H361 Suspected of damaging fertility or the unborn child.
	H400 Very toxic to aquatic life.
	H412 Harmful to aquatic life with long lasting effects.
Precautionary Statements	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
	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
	P501 - Dispose of contents/container in accordance with local/regional/national/ international regulations.
2.3 Other Hazards	

2.3 Other Hazards		
Results of PBT and vPvB Assessment		
PBT	N/A	
vPvB	N/A	
Composition Information on Ingredients		

3.2 Chemical Characterisation: Mixtures Description

Mixture of substances listed below with non-hazardous additions.

CAS: 94-36-0	Dibenzoyl peroxide	25-50%
EINECS: 202-327-6	Xi R36; XiR43; E R3; O R7	
Reg.nr.: 01-2119511472-50-XXXX		
	Org. Perox. B, H241; Aquatic Acute 1, H400; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 84-61-7	dicyclohexyl phthalate Xn R62; Xi R43 R53	25-50%
EINECS: 201-545-9		
Reg.nr.: 02-2119757232-42-XXXX		











Web: Irs-systems.co.
Repr. Cat. 2
Repr. 2, H361; Skin Sens. 1, H317; Aquatic Chronic 3, H412
For the wording of the listed risk phrases refer to section 16
Immediately remove any clothing soiled by the product.
Supply fresh air and to be sure call for a doctor.
Immediately wash with water and soap and rinse thoroughly.
Rinse opened eye for several minutes under running water. Then consult a doctor.
Drink plenty of water and provide fresh air. Call for a doctor immediately.
ot Acute and Delayed
No further relevant information available.
tion and special treatment needed
No further relevant information available.
Foam
Sand
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
gents Water with full jet
e or Mixture
Hydrocarbons
Carbon monoxide and carbon dioxide
Wear self-contained respiratory protective device.
Cool endangered receptacles with water spray.
nt and emergency procedures
Ensure adequate ventilation.
Wear protective clothing.
Keep away from ignition sources.
Use respiratory protective device against the effects of
fumes/dust/aerosol.
Do not allow to enter sewers/ surface or ground water.
d cleaning up
Pick up mechanically.
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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.
	See Section 13 for disposal information.

Handling and Storage

	Ensure good ventilation/exhaustion at the workplace.
	Prevent formation of dust.
Information about fire and explosion protection	Keep ignition sources away - Do not smoke.
	Use explosion-proof apparatus / fittings and spark-proof tools.
7.2 Conditions for safe storage, including any incompatibilities	
Requirements to be met by storerooms and receptacles	Store only in the original receptacle.
	Store in cool, dry conditions in well sealed receptacles.
	Do not allow to enter sewers/ surface or ground water.
Information about storage in one common storage facility	Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
Further information about storage conditions	Store receptacle in a well ventilated area.
	Protect from heat and direct sunlight.
Maximum storage temperature	25°C











Exposure Controls/Personal Protection

No further relevant information available.

Additional information about design of technical facilities	No further data; see item 7
8.1 Control Parameters	
Ingredients with limit values that require monitorin	g at the workplace
94-36-0 dibenzoyl peroxide	
WEL	Long-term value: 5 mg/m ³
84-61-7 dicyclohexyl phthalate	
WEL	Long-term value: 5 mg/m ³
Additional Information	The lists valid during the making were used as basis
8.2 Exposure Controls	
General Protective and Hygienic Measures	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 the eyes and skin.
Respiratory protection	Suitable respiratory protective device recommended.
Recommended filter device for short term use	Filter P2
Protection of hands	Protective gloves - The glove material has to be
	impermeable and resistant to the product/ the
	substance/ the preparation.
	Selection of the glove material on consideration of the
	penetration times, rates of diffusion and the
	degradation (EN 374)
Material of gloves	Nitrile rubber, NBR
	Butyl rubber, BR
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.
	For the mixture mentioned below the penetration tim
	has to be at least 60 minutes
	(Permeation according to EN 374 Part 3: Level 3).
Eye protection	Tightly sealed goggles
Body protection	Protective work clothing

Physical and Chemical Properties

Appearance	Form: Fluid Colour: Whitish
Odour	Weak, Characteristic
Odour Threshold	Not determined
pH value	Not applicable
Boiling point/Boiling range	400°C
Flash point	180°C
Flammability (solid, gaseous)	May cause fire.
Ignition temperature	
Decomposition temperature	60°C
Self-igniting	Product is not selfigniting.
Danger of explosion	Not determined
Lower explosion limit	Not determined
Upper explosion limit	Not determined
Vapour pressure at 20°C	1 hPa
Density at 20°C	1.24 g/cm ³
Bulk density	0.56 g/cm ³

Relative density	Not determined
Vapour density	Not applicable
Evaporation rate	Not applicable
Solubility in/Miscibility with water	Insoluble
Partition coefficient (n-octanol/water)	Not determined
Viscocity – Dynamic	Not applicable
Viscocity – Kinematic	Not applicable
Organic solvent content	0.0%
Solids content	100.0 %

9.2 Other information

No further relevant information available.

Stability and Reactivity

10.1 Reacitivty	No further relevant information available.
10.2 Chemical stability - Thermal decomposition / conditions to be avoided	To avoid thermal decomposition do not overheat. Keep away from heat and direct sunlight. No decomposition if used according to specifications.
Decomposition starts at	60°C
10.3 Possibility of hazardous reactions	Visible decomposition with spontaneous ignition on heating.
10.4 Conditions to avoid	No further relevant information available
10.5 Incompatible materials	Do not store together with reducing agents, heavy- metal compounds, acids and alkalis. Reacts with alkali, amines and strong acids.
10.6 Hazardous decomposition products	Hydrocarbons Carbon monoxide and carbon dioxide











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Additional information Toxicological Information Do not allow to enter sewers/ surface or ground water.

Acute toxicity	
LD/LC50 values relevant for classification	
94-36-0 dibenzoyl peroxide	
Oral Inhalative	LD50 >5000 mg/kg (rat)
	LC50 (4h) >24.3 mg/l (rat)
84-61-7 dicyclohexyl phthalate	
Oral	LD50 30000 mg/kg (rat)
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	May cause respiratory irritation.
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.

Ecological Information

	12.1 Toxicity – Aquatic toxicity			
	94-36-0 dibenzoyl peroxide	LC50 (96h) 2 mg/l (fish)		
	12.2 Persistence and degradability	No further relevant information available.		
	12.3 Bioaccumulative potential	No further relevant information available.		
	12.4 Mobility in soil	No further relevant information available.		
	Additional ecological information			
	General notes	Water hazard class 1 (German Regulation) (Self-		
		assessment): slightly hazardous for water		
		Do not allow undiluted product or large quantities of i		
		to reach ground water, water course or sewage		
		system. The material is harmful to the environment.		
	12.5 Results of PBT and vPvB assessment			
	PBT	N/A		
	vPvB	N/A		
	12.6 Other Adverse effects	No further relevant information available.		
Disposal (Considerations			
	13.1 Waste treatment methods			
	Recommendation	Must not be disposed together with household garbage. Do not allow product to reach sewage system.		
		Must be specially treated adhering to official regulations.		
	European waste catalogue			
	16 09 03*	peroxides, for example hydrogen peroxide		

plastic packaging

15 01 02

Uncleaned packaging

Recommendation

Packaging may be reused or recycled after cleaning. Packaging that may not be cleansed are to be disposed of in the same manner as the product. Disposal must be made according to official regulations.

Transport Information

14.1 UN Number (ADR, IMDG, IATA)	UN3106	
14.2 UN proper shipping name		
ADR	3106 ORGANIC PEROXIDE TYPE D, SOLID (dibenzoyl peroxide), ENVIRONMENTALLY HAZARDOUS	
IMDG	ORGANIC PEROXIDE TYPE D, SOLID (dibenzoyl peroxide), MARINE POLLUTANT	
ΙΑΤΑ	ORGANIC PEROXIDE TYPE D, SOLID (dibenzoyl peroxide)	
14.3 Transport hazard classes ADR, IMDG		
Class	5.2 Organic peroxides	
Label	5.2	
ΙΑΤΑ		
Class	5.2 Organic peroxides	
Label	5.2	
14.4 Packing Group (ADR, IMDG, IATA)	Void	
14.5 Environmental hazards - Marine pollutant	Yes	

The information provided is offered in good faith and is based on our current knowledge without guarantee of accuracy when properly stored, handled and applied under normal conditions in accordance with LRS recommendations. We do not accept responsibility for damage and claims arising from handling, transport, storage or disposal of the product. The information on this data sheet applies only to the product named above.

This does not constitute a guarantee or warranty for any specific product feature and shall not

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PD

Paul Jones – Technical Support



Tom Shone – Commercial Director











	Symbol:
Special marking (ADR)	Symbol:
14.6 Special precautions for user	Warning: Organic peroxides.
Danger code (Kemler)	-
EMS Number	F-J, S-R
14.7 Transport in bulk according to Ann of Marpol and the IBC Code	Not applicable.
Transport/Additional Information	
ADR	
Limited Quantities (LQ)	500g
Excepted Quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D
IMDG	
Limited Quantities (LQ)	500g
Excepted Quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
UN "Model Regulation"	UN3106, ORGANIC PEROXIDE TYPE D, SOLI (dibenzoyl peroxide), ENVIRONMENTALLY HAZARDOUS, 5.2

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

Technical Instructions (air)	
Class	I
Share in %	25-50%
Waterhazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.
15.2 Chemical Safety assessment	A Chemical Safety Assessment has not been carried out.







