

Version: 9 (replaces version 8)



Revision: 15.12.2023

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

· 1.1 Product identifier

PEROXAN DC-P +

 Trade name: 1.2 Relevant identified uses of th Application of the substance / the mixture 1.3 Details of the supplier of the 	PEROXAN DC-P + e substance or mixture and uses advised against No further relevant information available. Reaction initiator For industrial use safety data sheet
Manufacturer/Supplier:	PERGAN GmbH Hilfsstoffe für industrielle Prozesse Schlavenhorst 71 D-46395 Bocholt Tel: +49 2871 9902-0 Fax: +49 2871 9902-50
 Further information obtainable from: 1.4 Emergency telephone number: 	Environment protection / Security of labour Qualified person: E-mail: msds@pergan.com - Tel: +49 2871 9902-0

CTION 2: Hazarda identific

SECTION 2: Hazards identified	cation	
• 2.1 Classification of the substan • Classification according to Reg Org. Perox. F H242 Heating		272/2008
Skin Irrit. 2 H315 Causes		
	serious eye irritatio	nc
,	ise an allergic skin	
Aquatic Chronic 2 H411 Toxic to	0	
· 2.2 Label elements		
Labelling according to		
Regulation (EC) No 1272/2008	The product is cl	assified and labelled according to the GB CLP regulation.
· Hazard pictograms		
	GHS02 GHS07 (GHS09
· Signal word	Warning	
· Hazard-determining		
components of labelling: Hazard statements	bis(a,a-dimethylb H242 Heating ma H315 Causes sk	ay cause a fire.
		rious eve irritation.
		an allergic skin reaction.
		uatic life with long lasting effects.
 Precautionary statements 	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P220	Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines).
	P234	Keep only in original packaging.
	P264 P273	Wash thoroughly after handling. Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
		protection.
	P305+P351+P33	88 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	P410	present and easy to do. Continue rinsing. Protect from sunlight.
	P410 P411+P235	Store at temperatures not exceeding +30°C. Keep cool.
	P420	Store separately.
	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
 Additional information: 	Restricted to pro-	fessional users.
2.3 Other hazards		
 Results of PBT and vPvB asses PBT: 		in the mixture do not most the DRT/vDvR criteria concreting to UK DEACH, ensure VIII
· vPvB:		in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII. in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.
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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures		
 Dangerous components: 		
CAS: 80-43-3 EINECS: 201-279-3 Index number: 617-006-00-X Reg-No.: 01-2119541688-27		90-100%
CAS: 1344-28-1 EINECS: 215-691-6 Reg-No.: 01-2119529248-35	aluminium oxide substance with a Community workplace exposure limit	0.1-1%
· Additional information:	For the wording of the listed hazard phrases refer to section 16.	

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

General information:

Take care of personal protection for the first aider. In case of unconsciousness place patient stably in side position for transportation. Take affected persons into fresh air and keep quiet.

· After skin contact:

· After inhalation:

- Immediately wash with water and soap and rinse thoroughly. Immediately remove contaminated clothing.
- · After eye contact:
- After swallowing: 4.2 Most important symptoms and effects, both acute and delayed
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available. No further relevant information available.

If symptoms persist consult doctor.

SECTION 5: Firefighting measures

 5.1 Extinguishing media
 Suitable extinguishing agents:
 CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
 5.2 Special hazards arising from the substance or mixture
 Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid.
 5.3 Advice for firefighters
 Protective equipment:
 Do not inhale explosion gases or combustion gases.
 Cool endangered receptacles with water spray. Self-protection first!

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and	
emergency procedures	Keep away from ignition sources.
	In case of further temperature should be cooled with waterspray from a safe distance.
	Wear breathing apparatus with filter A during decomposition of materials.
	Wear protective equipment. Keep unprotected persons away.
• 6.2 Environmental precautions:	Inform respective authorities in case of seepage into water course or sewage system.
	Do not allow to enter sewers/ surface or ground water.
• 6.3 Methods and material for	
containment and cleaning up:	Ensure adequate ventilation.
J	Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % before disposal.
	Pick up mechanically, collect in a suitable receptacle and dispose in accordance with government regulations.
· 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.
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(Contd. of page 2) In case of large spillage the environmental authority should be informed. **SECTION 7: Handling and storage** · 7.1 Precautions for safe handling Keep away from heat and direct sunlight. Open and handle receptacle with care. Prevent formation of dust. Wear suitable respiratory protective device when decanting larger quantities without extractor facilities. Do not refill residue into storage receptacles. Restrict the quantity stored at the work place. 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. heavymetal compounds and amines). While using do not eat, drink or smoke. Do not generate flames or sparks. Keep product and emptied container away from heat and sources of ignition. Avoid shock and friction. Take precautionary measures against static discharges. Do not smoke. · Information about fire - and explosion protection: Protect from heat. Protect against electrostatic charges. Prevent impact and friction. Use explosion-proof apparatus / fittings and spark-proof tools. Dust can combine with air to form an explosive mixture. Substance/product is oxidising when dry Product is not explosive. However, formation of explosive air/dust mixtures are possible. Avoid open flames, sparks, direct sunlight and other sources of ignition. Q Keep ignition sources away - Do not smoke. · 7.2 Conditions for safe storage, including any incompatibilities Storage: Pay attention to the special requirements of your local autorithies for storing dangerous goods. Requirements to be met by storerooms and receptacles: Store only in the original receptacle. Prevent any seepage into the ground. Use only receptacles specifically permitted for this substance/product. · Information about storage in one common storage facility: Do not store or park organic peroxide together with heavy metal compounds and amines. Store away from foodstuffs, drinks and feeding stuffs. Further information about storage conditions: Keep container tightly sealed. Protect from heat and direct sunlight. Protect from contamination. Recommended storage temperature (To maintain quality): max.: +30 °C 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

0.4. Comtral monore store

· 8.1 Control parameters		
Ingredients with limit values that require monitoring at the workplace:		
1344-28-1 aluminium oxide		
WEL (Great Britain) Long-term value: 10* 4** mg/m³ inhalable dust **respirable dust		
DNELS		
80-43-3 bis(a,a-dimethylbenzyl) peroxide		
Oral	DNEL Longterm System	0.4 mg/kg bw/day (General population)
Dermal	DNEL Longterm System	0.8 mg/kg bw/day (Worker)
		0.4 mg/kg bw/day (General population)
Inhalative	DNEL Longterm System	5.6 mg/m3 (Worker)
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	1.4 mg/m3 (General population	on)	
· PNECs			
80-43-3 bis(a,a-dimetl			
PNEC Freshwater	0.00234 mg/l (AF 50)		
	2.24 mg/kg sed dw (-)		
PNEC Soil	0.447 mg/kg soil dw (-)		
PNEC STP	100 mg/l (AF 10)		
 Additional informati 	on: The lists valid during the makir	ng were used as basis.	
 8.2 Exposure controls Appropriate enginee controls 	ring No further data; see section 7.		
	measures, such as personal protective	equipment	
 General protective a hygienic measures: 	The usual precautionary meas Keep away from foodstuffs, be Immediately remove all soiled Wash hands before breaks an Store protective clothing separ Avoid close or long term conta Avoid contact with the eyes an Do not eat, drink, smoke or sn Use skin protection cream for	and contaminated clothing d at the end of work. rately. act with the skin. nd skin. iff while working.	
 Respiratory protecti 	on: Not necessary if room is well-v		
· Hand protection	Selection of the glove degradation	gloves with CE-labelling of category III. material on consideration of the penetration times, rates of diffusion and the	
· Material of gloves	The selection of the suitable gl	Fluorocarbon rubber (Viton) Nitrile rubber, NBR	
· Penetration time of			
material	The exact break trough time ha	as to be found out by the manufacturer of the protective gloves and has to be	
· Eye/face protection	observed.		
Eyenace protection	Tightly sealed goggles	5	
· Body protection:	Protective work clothin	ng	
	al and chemical properties		
 9.1 Information on ba General Information 	sic physical and chemical properties		
· Colour:		Whitish	
· Odour:		Aromatic	
• Odour threshold:	a point	Not determined.	
 Melting point/freezin Boiling point or initi Flammability 	ig point: al boiling point and boiling range	Not applicable. Not applicable. May cause fire.	
· Lower and upper ex	plosion limit	-	
· Lower:	-	Not determined.	
Upper:		Not determined.	
Flash point:		Not applicable.	
· Decomposition tem	perature:	+80 °C (SADT)	
·рН		Not applicable.	

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· Viscosity:	
Kinematic viscosity	Not applicable.
· Dynamic:	Not applicable.
· Solubility	
· water:	Undetermined.
 Partition coefficient n-octanol/water (log value) 	not determined
· Vapour pressure:	Not applicable.
 Density and/or relative density 	
· Density:	Not determined.
· Relative density	Not determined.
Bulk density at 20 °C:	400 kg/m³
Vapour density	Not applicable.
9.2 Other information	No further relevant information available.
· Appearance:	
· Form:	Powder
Important information on protection of health and environment	nent,
and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/dust
	mixtures are possible.
· Change in condition	
· Evaporation rate	Not applicable.
· Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
• Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in	
contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Heating may cause a fire.
· Corrosive to metals	Void
⁻ Desensitised explosives	Void
· Other safety characteristics	
· Active oxygen	5.8 - 5.9 %
Auto oviden	0.0 0.0 /0

SECTION 10: Stability and reactivity

 10.1 Reactivity 10.2 Chemical stability Thermal decomposition / 	No further relevant information available.
conditions to be avoided:	SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating decomposition may occur with substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be cause decomposition at and above the temperature. Contact with incompatible substances can cause decomposition at or below the SADT. No decomposition if used and stored according to specifications. To avoid thermal decomposition do not overheat.
 10.3 Possibility of hazardous 	
reactions	Self-accelerating decomposition at SADT.
 10.4 Conditions to avoid 	No further relevant information available.
 10.5 Incompatible materials: 	Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-metal compounds and amines).
 10.6 Hazardous decomposition 	
products:	Hydrocarbons, carbondioxide and -monoxid. No hazardous decomposition products if used and stored according to specifications. (Contd. on page 6)

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• Additional information:

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity Based on available data, the classification criteria are not met. LD/LC50 values relevant for classification:		
80-43-3 bis(a,a-dimethylbenzyl)	peroxide	
Oral LD50 >2,000 mg/kg (ratte	us)	
Dermal LD50 >2,000 mg/kg (ratte	us)	
Skin corrosion/irritation	Causes skin irritation.	
 Serious eye damage/irritation 	Causes serious eye irritation.	
Respiratory or skin		
sensitisation	May cause an allergic skin reaction.	
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	Based on available data, the classification criteria are not met.	
• STOT-single exposure	Based on available data, the classification criteria are not met.	
• 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.	
11.2 Information on other hazards		
· Endocrine disrupting properties		
None of the ingredients is listed.		

SECTION 12: Ecological in	Iformation	
12.1 Toxicity		
· Aquatic toxicity:		
80-43-3 bis(a,a-dimethylbenzy	yl) peroxide	
EC50 / 72h >20 mg/l (algae)		
EC50 >1,000 mg/l (activa	a sludge)	
12.2 Persistence and degrada	ability	
Degree of elimination:		
· Classification:		
80-43-3 bis(a,a-dimethylbenzy	yl) peroxide	
Degradation (Not readily biode	egradable) (OECD 301 F)	
1344-28-1 aluminium oxide		
Degradation (The study does	not need to be conducted)	
12.3 Bioaccumulative potenti	al	
Partition coefficient: nOctar	nol/water: [Log Kow]	
80-43-3 bis(a,a-dimethylbenzyl		5,6 (25°C
Bioconcentration factor (BCI	F)	
80-43-3 bis(a,a-dimethylbenzy	yl) peroxide	
BCF 747		
12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and vPvE		
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, anne	
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, anne	x XIII.
12.6 Endocrine disrupting	The second set of a second size of a first second size of the second s	
properties 12.7 Other adverse effects	The product does not contain substances with endocrine disrupting properties. No further relevant information available.	
· Remark:	Toxic for fish	
· Additional ecological inform		
· General notes:	Also poisonous for fish and plankton in water bodies.	
	Toxic for aquatic organisms	
	Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water	
	Do not allow product to reach ground water, water course or sewage system, even in small quant Danger to drinking water if even extremely small guantities leak into the ground.	tities.
	Danger to uninking water in even extremely small quantities leak into the ground.	GB

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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

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SECTION 12: Dispessel conside	
SECTION 13: Disposal conside	Frations
13.1 Waste treatment methods Recommendation	After diluting with a suitable inert solid material to 10 %, the product must be supplied to a special treatment (e. g. thermal utilization) under observance of all official regulations.
	Must not be disposed together with household garbage. Do not allow product to reach sewage system.
	Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)- number.
· Uncleaned packaging: · Recommendation: ٦	This material and its container must be disposed of as hazardous waste.
SECTION 14: Transport inform	ation
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3110
14.2 UN proper shipping name · ADR	UN3110 ORGANIC PEROXIDE TYPE F, SOLID (DICUMYL PEROXIDE), ENVIRONMENTALLY HAZARDOUS
· IMDG	ORGANIC PEROXIDE TYPE F, SOLID (DICUMYL PEROXIDE), MARINE POLLUTANT ORGANIC PEROXIDE TYPE F, SOLID (DICUMYL PEROXIDE)
14.3 Transport hazard class(es)	
ADR	
· Class · Label	5.2 (P1) Organic peroxides. 5.2
· IMDG	
· Class · Label	5.2 Organic peroxides. 5.2
· Class · Label	5.2 Organic peroxides. 5.2
14.4 Packing group · ADR, IMDG, IATA	Void
14.5 Environmental hazards:	Product contains environmentally hazardous substances: DICUMYL PEROXIDE
• Marine pollutant:	Yes Symbol (fish and tree)
• Special marking (ADR):	Symbol (fish and tree)
• 14.6 Special precautions for user • Hazard identification number (Ke	Warning: Organic peroxides. emler code): - D
Stowage Category Stowage Code Segregation Code	D SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids
Cogregation Code	SG36 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
14.7 Maritime transport in bulk ac	cording to IMO instruments Not applicable.
· Transport/Additional information:	
· ADR	500 a
· Limited quantities (LQ)	500 g (Contri on page

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· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Transport category	2
 Tunnel restriction code 	D
· RID / GGVSEB:	like ADR
· IMDG	
· Limited quantities (LQ)	500 g
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · Poisons Act Regulated explosives precursors None of the ingredients is listed. · Regulated poisons None of the ingredients is listed. · Reportable explosives precursors None of the ingredients is listed. · Reportable poisons None of the ingredients is listed. · Directive 2012/18/EU Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t Qualifying quantity (tonnes) for the application of upper-tier

requirements 200 t · DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex Ш

None of the ingredients is listed.

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

• Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

· Other regulations, limitations and prohibitive regulations · Please note:

Take care of the respective local regulations.

SECTION 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 phrases	H242 Heating may cause a fire. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects.
Department issuing SDS:	Environment protection / Security of labour
· Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
· Abbreviations and acronyms:	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)



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	ICAO: International Civil Aviation Organisation (Contd. of pa
	ADR: Accord relating at transport international des marchandises dangereuses par route (European Agreement Concerning the Internation
	ADX. Accord relating transport international des marchandises dangereuses par foure (European Agreenent Concerning the internation Carriage of Dangerous Goods by Road)
	IMDG: International Maritime Code for Dangerous Goods
	IATA: International Air Transport Association
	GHS: Globally Harmonised System of Classification and Labelling of Chemicals
	EINECS: European Inventory of Existing Commercial Chemical Substances
	ELINCS: European List of Notified Chemical Substances
	CAS: Chemical Abstracts Service (division of the American Chemical Society)
	DNEL: Derived No-Effect Level (UK REACH)
	PNEC: Predicted No-Effect Concentration (UK REACH)
	LC50: Lethal concentration, 50 percent
	LD50: Lethal dose, 50 percent
	PBT: Persistent, Bioaccumulative and Toxic
	vPvB: very Persistent and very Bioaccumulative
	Org. Perox. F: Organic peroxides – Type E/F
	Skin Irrit. 2: Skin corrosion/irritation – Category 2
	Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
	Skin Sens. 1: Skin sensitisation – Category 1
	Skin Sens, 1B: Skin sensitisation – Category 1B
	Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
* Data compared to the	
previous version altered.	