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PERGAN The Peroxide Company

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

· 1.1 Product identifier

PEROXAN DC-40 PE-G

 Trade name:
 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 Application of the substance / the mixture
 1.3 Details of the supplier of the safety data sheet
 Manufacturer/Supplier:
 PERGAN GmbH Hilfsstoffe für industrielle Prozesse Schlavenhorst 71 D-46395 Bocholt Tel: 40. 2971 0002 0

	Fax: +49 2871 9902-0 Fax: +49 2871 9902-50
· Further information obtainable	
from:	Environment protection / Security of labour Qualified person: E-mail: msds@pergan.com
 1.4 Emergency telephone number: 	- Tel: +49 2871 9902-0

SECTION 2: Hazards identification

SECTION 2: Hazards identif	lication
• 2.1 Classification of the substa • Classification according to Re Org. Perox. G	
-	es skin irritation.
Eye Irrit. 2 H319 Caus	es serious eye irritation.
-	cause an allergic skin reaction.
,	damage the unborn child.
	to aquatic life with long lasting effects.
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	
	GHS07 GHS08 GHS09
· Signal word	Danger
 Hazard-determining components of labelling: Hazard statements Precautionary statements 	bis(a,a-dimethylbenzyl) peroxideH315Causes skin irritation.H319Causes serious eye irritation.H319Causes serious eye irritation.H317May cause an allergic skin reaction.H360DMay damage the unborn child.H411Toxic to aquatic life with long lasting effects.P261Avoid breathing dust/fume/gas/mist/vapours/spray.P264Wash thoroughly after handling.P272Contaminated work clothing should not be allowed out of the workplace.P273Avoid release to the environment.P280Wear protective gloves/protective clothing/eye protection/face protection/hearing
	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. P332+P313 If skin irritation occurs: Get medical advice/attention. P391 Collect spillage. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
• Additional information:	Restricted to professional users.
 2.3 Other hazards Results of PBT and vPvB asse 	osemant
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
• Determination of endocrine- disrupting properties	The product does not contain substances with endocrine disrupting properties.

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Dangerous components:		
		40-50%
 Additional information: 	For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

• 4.1 Description of first aid measures

 4.2 Most important symptoms and effects, both acute and

4.3 Indication of any immediate medical attention and special

· After eye contact:

· After swallowing:

treatment needed

delayed

- General information:
 After inhalation:
 After skin contact:
 - 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. Immediately wash with water and soap and rinse thoroughly. Immediately remove contaminated clothing. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. If symptoms persist consult doctor.

No further relevant information available.

No further relevant information available.

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.
• 5.3 Advice for firefighters	
Protective equipment:	Do not inhale explosion gases or combustion gases.
Additional information	Cool endangered receptacles with water spray.
	Self-protection first!

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and emergency procedures 	In case of further temperature should be cooled with waterspray from a safe distance.
chiergeney procedures	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.
	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.
	In case of large spillage the environmental authority should be informed.

SECTION 7: Handling and storage

· 7.1 Precautions for safe	
handling	Open and handle receptacle with care.
-	Prevent formation of dust.
	Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
	(Contd. on page 3)

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

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	Before break and at the end of work hands should be thoroughly washed.
	Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-
	metal compounds and amines).
	While using do not eat, drink or smoke.
	Avoid shock and friction.
 Information about fire - and 	
explosion protection:	Protect from heat
	Prevent impact and friction.
	Dust can combine with air to form an explosive mixture.
	Substance/product is oxidising when dry.
	Substance/product is oxidising when dry.
	Avoid open flames, sparks, direct sunlight and other sources of ignition.
	Avoid open names, sparks, direct sumight and other sources of ignition.
· 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.
storerooms and receptacies.	Prevent any seepage into the ground.
	Use only receptacles specifically permitted for this substance/product.
Information about stars as in	Use only receptacies specifically permitted for this substance/product.
Information about storage in	
one common storage facility:	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.
	Storage in a collecting room is required.
· Recommended storage	
temperature (To maintain	
quality):	max.: +30 °C
· Storage class:	5.2
5	5.2 No further relevant information available.
 7.3 Specific end use(s) 	

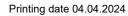
SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

·DNELs			
80-43-3 bi	is(a,a-dimetl	hylbenzyl) pe	eroxide
Oral	DNEL Long	term System	0,4 mg/kg bw/day (General population)
Dermal	DNEL Long	term System	0,8 mg/kg bw/day (Worker)
			0,4 mg/kg bw/day (General population)
Inhalative	DNEL Long	term System	5,6 mg/m3 (Worker)
			1,4 mg/m3 (General population)
· PNECs			
80-43-3 bi	is(a,a-dimetl	hylbenzyl) pe	eroxide
PNEC Fre	shwater	0,00234 mg	/I (AF 50)
PNEC Fre	NEC Freshwater sed 2,24 mg/kg sed dw (-)		
PNEC Soi	I	0,447 mg/kg soil dw (-)	
PNEC ST	PNEC STP 100 mg/l (AF 10)		
· Addition	nal informati	on:	The lists valid during the making were used as basis.
· 8.2 Expos	sure controls	S	
	ate enginee	•	
controls			No further data; see section 7.
 Individual protection measures, such as personal protective equipment General protective and 			
hygienic measures:			The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
			Store protective clothing separately. Avoid close or long term contact with the skin. Avoid contact with the eyes and skin.



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· Respiratory protection:	Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection. Be sure to clean skin thoroughly after work and before breaks. Not necessary if room is well-ventilated. Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated. Filter P2
· Hand protection	Only use chemical-protective gloves with CE-labelling of category III. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
[.] Material of gloves	Protective gloves 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. Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene
 Penetration time of glove material 	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
• Eye/face protection	Tightly sealed goggles
· Body protection:	Protective work clothing
SECTION 9: Physical and c	chemical properties
9.1 Information on basic phys	ical and chemical properties

9.1 Information on basic physical and chemical properties		
General Information Colour:	\A/h:4:-h	
· Odour:	Whitish	
• • • • • • • • • • • • • • • • • • • •	Characteristic Not determined. Not applicable.	
Odour threshold:		
Melting point/freezing point:		
Boiling point or initial boiling point and boiling range	Not applicable.	
· Flammability	May cause fire.	
· Lower and upper explosion limit		
Lower:	Not determined.	
· Upper:	Not determined.	
· Flash point:	Not applicable.	
Decomposition temperature:	+80 °C (SADT)	
· pH	Not applicable.	
· Viscosity:	Not applicable.	
· 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:	330 - 360 kg/m³	
· Vapour density	Not applicable.	
Particle characteristics		
See section 3.		
9.2 Other information	No further relevant information available.	
Appearance:		
Form:	Solid	
	Granulate	
		(Contd. on page

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· Important information on protection of health and e	nvironment.	
and on safety.	,	
Ignition temperature:	Product is not selfigniting.	
Explosive properties:	Not determined.	
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 g	ases in	
contact with water	Void	
· Oxidising liquids	Void	
• Oxidising solids	Void	
· Organic peroxides	Void	
Corrosive to metals	Void	
· Desensitised explosives	Void	
Other safety characteristics		
· Active oxygen	2,3 - 2,4 %	

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.
[·] 10.3 Possibility of hazardous	No decomposition il used and stored according to specifications.
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.
· Additional information:	Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.

SECTION 11: Toxicological information

 11.1 Information on hazard clas Acute toxicity 	eses as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.	
· LD/LC50 values relevant for cl	assification:	
80-43-3 bis(a,a-dimethylbenzyl)	peroxide	
Oral LD50 >2.000 mg/kg (ratt	us)	
Dermal LD50 >2.000 mg/kg (ratt	us)	
Skin corrosion/irritation	Causes skin irritation.	
 Serious eye damage/irritation Respiratory or skin 	Causes serious eye irritation.	
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 	May damage the unborn child.	
 STOT-single exposure 	Based on available data, the classification criteria are not met.	
		(Contd. on page 6)



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 STOT-repeated exposure Aspiration hazard 11.2 Information on other haza 	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.	Contd. of page
· Endocrine disrupting propert	ies	
None of the ingredients is listed.		
SECTION 12: Ecological in	formation	
12.1 Toxicity		
Aquatic toxicity:		
80-43-3 bis(a,a-dimethylbenzy) peroxide	
EC50 / 72h >20 mg/l (algae)		
EC50 >1.000 mg/l (activa	sludge)	
12.2 Persistence and degrada	oility	
 Degree of elimination: 		
· Classification:		
80-43-3 bis(a,a-dimethylbenzy) peroxide	
Degradation (Not readily biode		
12.3 Bioaccumulative potentia		
· Partition coefficient: nOctan	ol/water: [Log Kow]	
80-43-3 bis(a,a-dimethylbenzyl)	peroxide	5,6 (25°C
· Bioconcentration factor (BCF)	
80-43-3 bis(a,a-dimethylbenzy) peroxide	
BCF 747		
12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and vPvB		
PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex	
 vPvB: 12.6 Endocrine disrupting 	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex	CAIII.
properties	The product does not contain substances with endocrine disrupting properties.	
12.7 Other adverse effects	No further relevant information available.	
· Remark:	Toxic for fish	
Additional ecological informa		
· 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 qu Danger to drinking water if even extremely small quantities leak into the ground.	antities.

 Uncleaned packaging: Recommendation: 	This material and its container must be disposed of as hazardous waste.
· Waste disposal key:	Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)- number.
13.1 Waste treatment methods Recommendation	Must not be disposed together with household garbage. Do not allow product to reach sewage system.
SECTION 13: Disposal consi	derations

· 14.1 UN number or ID number	
· ADR, IMDG, IATA	UN3077
14.2 UN proper shipping name	
ADR	UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
	N.O.S. (DICUMYL PEROXIDE)
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
	(DICUMYL PEROXIDE), MARINE POLLUTANT
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	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DICUMYL PEROXIDE)
14.3 Transport hazard class(es)	
· ADR	
· Class · Label	9 (M7) Miscellaneous dangerous substances and articles.
· Class · Label	9 Miscellaneous dangerous substances and articles. 9
· 14.4 Packing group · ADR, IMDG, IATA	III
14.5 Environmental hazards:	Product contains environmentally hazardous substances: DICUMYL PEROXIDE
· Marine pollutant:	Yes Symbol (fish and tree)
 Special marking (ADR): Special marking (IATA): 	Symbol (fish and tree) Symbol (fish and tree)
 · 14.6 Special precautions for user · Hazard identification number (Kemler code): · Stowage Category · Stowage Code 	Warning: Miscellaneous dangerous substances and articles. 90 A SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
· 14.7 Maritime transport in bulk according to IMO instr	uments Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
 Transport category Tunnel restriction code 	3 E
· RID / GGVSEB:	like ADR
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g

SECTION 15: Regulatory information

 $^{\cdot}$ 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

 Directive 2012/18/EU Named dangerous substances 	
- ANNEX I	None of the ingredients is listed.
Seveso category	E2 Hazardous to the Aquatic Environment
Qualifying quantity (tonnes) for	•
the application of lower-tier	
requirements	200 t
Qualifying quantity (tonnes) for	•
the application of upper-tier	
requirements	500 t
REGULATION (EC) No	
1907/2006 ANNEX XVII	Conditions of restriction: 30, 75



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DIRECTIVE 2011/65/EU on the	restriction of the use of certain hazardous substances in electrical and electronic equipment – Anr
None of the ingredients is listed.	
REGULATION (EU) 2019/1148	
· Regulation (EC) No 273/2004 c	on drug precursors
None of the ingredients is listed.	
· Regulation (EC) No 111/2005 I	aying down rules for the monitoring of trade between the Community and third countries in drug
precursors	
None of the ingredients is listed.	
SECTION 16: Other informat	ion
	present knowledge. However, this shall not constitute a guarantee for any specific product features and sh
not establish a legally valid contra	
· Relevant phrases	H242 Heating may cause a fire.
	H315 Causes skin irritation. H317 May cause an allergic skin reaction.
	H319 Causes serious eve irritation.
	H360D May damage the unborn child.
	H411 Toxic to aquatic life with long lasting effects.
Department issuing SDS:	Environment protection / Security of labour
Contact:	Tel: +49 2871 9902-0
Version number of previous	E-mail: mail@pergan.com
version:	9
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) ICAO: International Civil Aviation Organisation
	ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement 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 (REACH)
	PNEC: Predicted No-Effect Concentration (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 Org. Perox. G: Organic peroxides – Type G
	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
	Repr. 1B: Reproductive toxicity – Category 1B Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
* Data compared to the	Adams on one 2. The access to the aquate on monimone long term aquate hazard = outegory 2
previous version altered.	