

Version: 8 (replaces version 7)



Revision: 04.03.2024

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

### · 1.1 Product identifier

PEROXAN DB-AS

· Trade name:			
$\cdot$ 1.2 Relevant identified uses of the	ne substance or mixture and uses advised against		
	No further relevant information available.		
<ul> <li>Application of the substance /</li> </ul>			
the mixture	Reaction initiator		
	For industrial use		
· 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: +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. Hazarde identific	sation		

### **SECTION 2: Hazards identification**

### · 2.1 Classification of the substance or mixture

1	Classification according to Regulation (EC) No 1272/2008	
	Flam. Liq. 2	H225 Highly flammable liquid and vapour.
	Org. Perox. E	H242 Heating may cause a fire.
	Muta. 2	H341 Suspected of causing genetic defects.
	Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

· 2.2 Label elements · Labelling according to

· Hazard pictograms

Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.



	GH502 GH508	
· Signal word	Danger	
<ul> <li>Hazard-determining components of labelling:</li> <li>Hazard statements</li> </ul>	H242 Heating ma H341 Suspected	mable liquid and vapour.
Precautionary statements	P210 P220 P234 P243 P273 P280 P303+P361+P35 P405 P410 P411+P235 P420 P501	<ul> <li>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines).</li> <li>Keep only in original packaging.</li> <li>Take action to prevent static discharges.</li> <li>Avoid release to the environment.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</li> <li>Store locked up.</li> <li>Protect from sunlight.</li> <li>Store at temperatures not exceeding +40°C. Keep cool.</li> <li>Store separately.</li> <li>Dispose of contents/container in accordance with local/regional/national/international regulations.</li> </ul>
<ul> <li>Additional information:</li> <li>2.3 Other hazards</li> <li>Results of PBT and vPvB asse</li> <li>PBT:</li> </ul>	ssment	yl hydroperoxide. May produce an allergic reaction. in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
<ul> <li>vPvB:</li> <li>Determination of endocrine- disrupting properties</li> </ul>	The substances i	in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. s not contain substances with endocrine disrupting properties.

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### **SECTION 3: Composition/information on ingredients**

### · 3.2 Mixtures

Dangerous components:		
CAS: 110-05-4	di-tert-butyl peroxide	90-100%
EINECS: 203-733-6 Index number: 617-001-00-2 Reg-No.: 01-2119513335-48		
CAS: 75-91-2 EINECS: 200-915-7 Reg-No.: 01-2119446670-40	tert-butyl hydroperoxide Flam. Liq. 3, H226; Org. Perox. F, H242; Acute Tox. 3, H311; Acute Tox. 2, H330; Muta. 2, H341; Carc. 2, H351; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limits: Eye Dam. 1; H318: C ≥ 1 % Skin Sens. 1; H317: C ≥ 0,1 % STOT SE 3; H335: C ≥ 5 %	≤0,1%
<ul> <li>Additional information:</li> </ul>	For the wording of the listed hazard phrases refer to section 16.	

Take care of personal protection for the first aider.

Take affected persons into fresh air and keep quiet.

Rinse opened eye for several minutes under running water.

Immediately remove contaminated clothing.

No further relevant information available.

No further relevant information available.

If symptoms persist consult doctor.

### **SECTION 4: First aid measures**

4.1 Description of first aid measures



- · After skin contact:
- · 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

**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.
 For safety reasons unsuitable
 extinguishing agents: Water with full jet
 5.2 Special hazards arising from

the substance or mixture

• 5.3 Advice for firefighters • Protective equipment: • Additional information Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid. Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray.

### **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:



Self-protection first!

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

 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % before disposal. Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government regulations.

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6.4 Peterence to other sections	(Contd. of page See Section 7 for information on safe handling.
6.4 Reference to other sections	See Section 7 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 st	orage
7.1 Precautions for safe handling	Keep away from heat and direct sunlight.
nananing	Open and handle receptacle with care.
	Prevent formation of aerosols.
	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. heav
	metal 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.
	bo 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. Fumes can combine with air to form an explosive mixture.
	Wear shoes with conductive soles.
	Formation of flammable or explosive gas/air-mixtures is possible.
	Avoid open flames, sparks, direct sunlight and other sources of ignition.
	Keep ignition sources away - Do not smoke.
7.2 Conditions for safe storage,	
Storage: · Requirements to be met by	Pay attention to the special requirements of your local autorithies for storing dangerous goods.
storerooms and receptacles:	Store in a cool location.
	Store only in the original receptacle.
	Prevent any seepage into the ground.
Information allowed at an order	Use only receptacles specifically permitted for this substance/product.
<ul> <li>Information about storage in one common storage facility:</li> </ul>	Do not store or park organic peroxide together with heavy metal compounds and amines.
one common storage facility.	Store away from foodstuffs, drinks and feeding stuffs.
· Further information about	
storage conditions:	Keep container tightly sealed.
	Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.
	Protect from contamination.
· Recommended storage	
temperature (To maintain	
quality):	max.: +40 °C
· Storage class:	5.2
7.3 Specific end use(s)	No further relevant information available.

### **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.



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			(Contd. of page 3
-	di-tert-butyl p	eroxide	
Dermal			3 mg/kg bw/day (Worker)
	-		20 mg/m3 (Worker)
	ert-butyl hydro		
Dermal		•	0,21 mg/kg bw/day (Worker)
Inhalative	DNEL Acute	-	85,2 mg/m3 (Worker)
	DNEL Acute		28,4 mg/m3 (Worker)
	DNEL Longte	erm System	2,2 mg/m3 (Worker)
	DNEL Longte	•	0,58 mg/m3 (Worker)
·PNECs	5		
	di-tert-butyl p	eroxide	
	rinewater sed		sed dw (_)
PNEC Fre		0,144 mg/l	
	shwater sed	15 mg/kg s	
PNEC Soi			g soil dw (-)
PNEC ST		10 mg/l (Al	
PNEC Ma		0,014 mg/l	
	ert-butyl hydro		
	rinewater sed	•	a sed dw
PNEC Fre			(AF 1.000)
PNEC Sea		0 mg/l (AF	
	shwater sed		g sed dw (-)
PNEC Soi		-	g soil dw (AF 1.000)
PNEC ST		0,17 mg/l (	
	hal informatio		The lists valid during the making were used as basis.
	sure controls ate engineeri		
controls	ate engineen	-	No further data; see section 7.
	al protection		such as personal protective equipment
	protective ar		
hygienio	c 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.
			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.
· Respira	tory protectio		Not necessary if room is well-ventilated.
			Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.
			Filter A2
· Hand pr	otection		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
			Protective gloves
· Materia	l of gloves		The selection of the suitable gloves does not only depend on the material, but also on further marks of
	5		quality and varies from manufacturer to manufacturer.
			Butyl rubber, BR
			Fluorocarbon rubber (Viton)
			Nitrile rubber, NBR Neoprene
· Penetra	ation time of g		
materia		-	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to b
<b>-</b> /-	,		observed.
· Eye/face	e protection		Tightly sealed goggles
			Nghay sociou goggios
			(Contd on page 5

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· Body protection:

contact with water

Oxidising liquids

Oxidising solids

Conductivity
 Active oxygen

· Organic peroxides

· Corrosive to metals

Desensitised explosives

Other safety characteristics



Protective work clothing

#### **SECTION 9: Physical and chemical properties** · 9.1 Information on basic physical and chemical properties · General Information Colour: Colourless · Odour: Ether-like · Odour threshold: Not determined. · Melting point/freezing point: Not applicable. Boiling point or initial boiling point and boiling range Not applicable. · Flammability Not applicable. · Lower and upper explosion limit · Lower: Not determined. · Upper: Not determined. · Flash point: 6 °C Decomposition temperature: +80 °C (SADT) · pH Not determined. · Viscosity: Kinematic viscosity Not determined. · Dynamic at 20 °C: 1 mPas · Solubility water: Undetermined. · Partition coefficient n-octanol/water (log value) not determined · Vapour pressure: Not determined. · Density and/or relative density · Density at 20 °C: 0,8 g/cm<sup>3</sup> Relative density Not determined. Vapour density Not determined. 9.2 Other information Appearance: Fluid · Form: · Important information on protection of health and environment, and on safety. Ignition temperature: Product is not selfigniting. Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible. · Change in condition · Evaporation rate Not determined. Information with regard to physical hazard classes · Explosives Void Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure Void · Flammable liquids Highly flammable liquid and vapour. · 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

Void

Void

Void

Void

Void

>1000 pS/m

> 10,7 %

Heating may cause a fire.

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SECTION 10: Stability and	reactivity	
<ul> <li>10.1 Reactivity</li> <li>10.2 Chemical stability</li> <li>Thermal decomposition /</li> </ul>	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.	
<ul> <li>10.5 Incompatible materials:</li> </ul>	Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e.g. heavy-metal compounds and amines).	
<ul> <li>10.6 Hazardous decomposition</li> </ul>	on the second	
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: Toxicologica	SECTION 11: Toxicological information	
	asses 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		
110-05-4 di-tert-butyl peroxide		
Oral LD50 >25.000 r	ng/kg (rattus)	

Dermal	LD50	>19.000 mg/	kg (mouse)	
Inhalative	LC50 / 4h	C50 / 4h >24,5 mg/l (rattus)		
75-91-2 te	rt-butyl hy	droperoxide		
Oral	LD50	805 mg/kg /(	70%) (rattus)	
Dermal	LD50	633 mg/kg /(	70%) (rabbit)	
Inhalative	LC50 / 4h	1,2 mg/l /(70	%) (rattus)	
· Skin corr	osion/irrit	ation	Based on available data, the classification criteria are not met.	
		e/irritation	Based on available data, the classification criteria are not met.	
•	ory or skin			
sensitisa	tion		Based on available data, the classification criteria are not met.	
· Germ cel	l mutagen	icity	Suspected of causing genetic defects.	
· Carcinog	enicity		Based on available data, the classification criteria are not met.	
· Reprodu	<b>Reproductive toxicity</b> Based on available data, the classification criteria are not met.			
· STOT-sin	STOT-single exposure Based on available data, the classification criteria are not met.			
· STOT-rep	STOT-repeated exposure Based on available data, the classification criteria are not met.			
<ul> <li>Aspiratio</li> </ul>	n hazard		Based on available data, the classification criteria are not met.	
· 11.2 Infor	mation on	other hazard	s	
· Endocrin	e disruptii	ng properties		
None of th	None of the ingredients is listed.			

### **SECTION 12: Ecological information**

· 12.1 Toxici	ty
· Aquatic to	xicity:
75-91-2 tert	t-butyl hydroperoxide
EC50 / 72h	2,1 mg/l /(70%) (selenastrum capricornutum)
LC50 / 96h	42,3 mg/l /(70%) (pimephales promelas)
EC50	24,3 mg/l /(70%) (activa sludge)
EC50 / 48h	20 mg/l /(70%) (daphnia)
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12.2 Persistence and degrad	ability	
<ul> <li>Degree of elimination:</li> </ul>		
· Classification:		
110-05-4 di-tert-butyl peroxid	le	
Degradation (Not readily biod	egradable) (OECD 301 D)	
75-91-2 tert-butyl hydroperox	<b>cide</b>	
Degradation (Not readily biod	egradable) (OECD 301 D)	
12.3 Bioaccumulative potent	ial	
· Partition coefficient: nOcta	nol/water: [Log Kow]	
110-05-4 di-tert-butyl peroxide	}	3,2 (22°C)
75-65-0 2-methylpropan-2-ol	· · · · · · · · · · · · · · · · · · ·	0,32 (20°C)
75-91-2 tert-butyl hydroperox	<i>(</i> ide	0,85 (30 °C
12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and vPv	B assessment	
· 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.
12.6 Endocrine disrupting		
properties	The product does not contain substances with endocrine disrupting properties.	
12.7 Other adverse effects		
· Remark:	Harmful to fish	
· Additional ecological inform	nation:	
· General notes:	Harmful to aquatic organisms	
		ous for water
	Harmful to aquatic organisms	

### **SECTION 13: Disposal considerations**

¥
$\mathcal{A}$

number.

After diluting with a suitable desentisation agent to 10 %, the solution 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)-

Waste disposal key:
 Uncleaned packaging:

· Recommendation:

· 13.1 Waste treatment methods

· Recommendation

This material and its container must be disposed of as hazardous waste.

SECTION 14: Transport information	
<ul> <li>14.1 UN number or ID number</li> <li>ADR, IMDG, IATA</li> </ul>	UN3107
· 14.2 UN proper shipping name · ADR	UN3107 ORGANIC PEROXIDE TYPE E, LIQUID (DI-tert-BUTYL PEROXIDE)
· IMDG, IATA	ORGANIC PEROXIDE TYPE E, LIQUID (DI-tert-BUTYL PEROXIDE)
· 14.3 Transport hazard class(es)	
· ADR	
<b></b>	
Class	5.2 (P1) Organic peroxides.
· Label	5.2
· IMDG, IATA	
<u>.</u>	
· Class	5.2 Organic peroxides.
· Label	5.2
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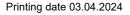
		(Contd. of page
14.4 Packing group · ADR, IMDG, IATA		Void
14.5 Environmental hazards: · Marine pollutant:		Νο
14.6 Special precautions for use · Hazard identification number · Stowage Category · Stowage Code · Segregation Code		Warning: Organic peroxides. D SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. SG72 See 7.2.6.3.2.
14.7 Maritime transport in bulk	according to IMO instrum	ents Not applicable.
· Transport/Additional information	on:	
ADR Limited quantities (LQ) Excepted quantities (EQ)		125 ml Code: E0 Not permitted as Excepted Quantity
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>		2 D
· RID / GGVSEB:		like ADR
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)		125 ml Code: E0
SECTION 15: Regulatory info		Not permitted as Excepted Quantity
	nental regulations/legisla None of the ingredients is P6b SELF-REACTIVE SU or 50 t	tion specific for the substance or mixture listed. JBSTANCES AND MIXTURES and ORGANIC PEROXIDES
15.1 Safety, health and environm Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) for the application of lower-tier requirements Qualifying quantity (tonnes) for the application of upper-tier requirements REGULATION (EC) No 1907/2006 ANNEX XVII DIRECTIVE 2011/65/EU on the II	nental regulations/legisla None of the ingredients is P6b SELF-REACTIVE SU 50 t 200 t Conditions of restriction: 3	tion specific for the substance or mixture s listed. JBSTANCES AND MIXTURES and ORGANIC PEROXIDES
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<ul> <li>15.1 Safety, health and environm</li> <li>Directive 2012/18/EU</li> <li>Named dangerous substances <ul> <li>ANNEX I</li> <li>Seveso category</li> <li>Qualifying quantity (tonnes) for the application of lower-tier requirements</li> <li>Qualifying quantity (tonnes) for the application of upper-tier requirements</li> <li>REGULATION (EC) No 1907/2006 ANNEX XVII</li> <li>DIRECTIVE 2011/65/EU on the II</li> <li>None of the ingredients is listed.</li> <li>REGULATION (EU) 2019/1148</li> <li>Annex I - RESTRICTED EXPLO</li> </ul></li></ul>	nental regulations/legisla None of the ingredients is P6b SELF-REACTIVE SU 50 t 200 t Conditions of restriction: 3 restriction of the use of ce	tion specific for the substance or mixture I listed. JBSTANCES AND MIXTURES and ORGANIC PEROXIDES 3 ertain hazardous substances in electrical and electronic equipment – Anne
15.1 Safety, health and environm Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) for the application of lower-tier requirements Qualifying quantity (tonnes) for the application of upper-tier requirements REGULATION (EC) No 1907/2006 ANNEX XVII DIRECTIVE 2011/65/EU on the II None of the ingredients is listed. REGULATION (EU) 2019/1148 Annex I - RESTRICTED EXPLO	nental regulations/legisla None of the ingredients is P6b SELF-REACTIVE SU 50 t 200 t Conditions of restriction: 3 restriction of the use of ce	tion specific for the substance or mixture I listed. JBSTANCES AND MIXTURES and ORGANIC PEROXIDES 3 ertain hazardous substances in electrical and electronic equipment – Anne
<ul> <li>15.1 Safety, health and environm</li> <li>Directive 2012/18/EU</li> <li>Named dangerous substances <ul> <li>ANNEX I</li> <li>Seveso category</li> <li>Qualifying quantity (tonnes) for the application of lower-tier requirements</li> <li>Qualifying quantity (tonnes) for the application of upper-tier requirements</li> <li>REGULATION (EC) No 1907/2006 ANNEX XVII</li> <li>DIRECTIVE 2011/65/EU on the II</li> <li>None of the ingredients is listed.</li> <li>REGULATION (EU) 2019/1148</li> <li>Annex I - RESTRICTED EXPLO</li> <li>None of the ingredients is listed.</li> </ul></li></ul>	nental regulations/legislar None of the ingredients is P6b SELF-REACTIVE SU 50 t 200 t Conditions of restriction: 3 restriction of the use of ce DSIVES PRECURSORS (Up	tion specific for the substance or mixture I listed. JBSTANCES AND MIXTURES and ORGANIC PEROXIDES 3 ertain hazardous substances in electrical and electronic equipment – Anne
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### **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.

Department issuing SDS: Environme

S: Environment protection / Security of labour



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# Trade name: PEROXAN DB-AS

### · Contact:

Tel: +49 2871 9902-0 E-mail: mail@pergan.com

Version number of previous version:

• \* Data compared to the previous version altered.

