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

· 1.1 Product identifier

ΡΕΡΟΧΔΝ ΡΔΜ

· Trade name:	
<ul> <li>1.2 Relevant identified uses of t</li> </ul>	he substance or mixture and uses advised against
	No further relevant information available.
Application of the substance /	
the mixture	Reaction initiator For industrial use
<ul> <li>1.3 Details of the supplier of the Manufacturer/Supplier</li> </ul>	•
· 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	<b>T</b> 1 10 0071 0000 0
number:	- Tel: +49 2871 9902-0
* SECTION 2: Hazards identifi	cation
· 2.1 Classification of the substa	nce or mixture

SECTION 2: Hazards identifi	cation	
• 2.1 Classification of the substant • Classification according to Reg	gulation (EC) No 12	72/2008
Flam. Liq. 3 H226 Flammable		
Org. Perox. F H242 Heating may		
Skin Corr. 1A H314 Causes seven	ere skin burns and e	ye damage.
Eye Dam. 1 H318 Causes seri	ous eye damage.	
-		rough prolonged or repeated exposure.
-	if swallowed and en	
2.2 Label elements		
· Labelling according to		
Regulation (EC) No 1272/2008	The product is class	ssified and labelled according to the GB CLP regulation.
· Hazard pictograms	$\wedge$ $\wedge$	
	< <u> </u>	
		V
	GHS02 GHS05 GI	HS08
· Signal word	Danger	
· Hazard-determining		
components of labelling:	menthane, monoh	ydroperoxy derivative
	1-isopropyl-4-meth	
<ul> <li>Hazard statements</li> </ul>	H226 Flammable I	
	H242 Heating may	
	H314 Causes seve	ere skin burns and eye damage.
	H373 May cause c	lamage to organs through prolonged or repeated exposure.
		if swallowed and enters airways.
<ul> <li>Precautionary statements</li> </ul>	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.
	P243	Take action to prevent static discharges.
	P264	Wash thoroughly after handling.
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
	P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
		IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
		water [or shower].
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
		present and easy to do. Continue rinsing.
	P403+P235	Store in a well-ventilated place. Keep cool.
	P405	Store locked up.
	P410	Protect from sunlight.
	P411	Store at temperatures not exceeding +25°C.
	P420	Store separately.
	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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#### · 2.3 Other hazards

- · Results of PBT and vPvB assessment
- · PBT:
- · vPvB:

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII. The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.

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

#### 3.2 Mixtures

Dangerous components:		
CAS: 26762-92-5 EINECS: 247-987-6	menthane, monohydroperoxy derivative Org. Perox. F, H242; STOT RE 2, H373; Skin Corr. 1A, H314	50-60%
Reg-No.: 01-2119971063-41		
CAS: 99-82-1	1-isopropyl-4-methylcyclohexane	40-50%
EINECS: 202-790-4 Reg-No.: 01-2119980038-33	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315	
· 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 General information:



Immediately remove any clothing soiled by the product.

After inhalation:

- After eye contact:
- · After swallowing:
- 4.2 Most important symptoms and effects, both acute and delayed

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. Then consult a doctor. Drink plenty of water and provide fresh air. Call for a doctor immediately.

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. For safety reasons unsuitable extinguishing agents: Water with full jet 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

Additional information

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:

6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

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

# Take care of personal protection for the first aider.

· After skin contact:

4.3 Indication of any immediate medical attention and special treatment needed

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	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.
• 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	Keep away from heat and direct sunlight.
nananng	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. heavy-
	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.
	runes car combine with an to form an explosive mixture.
	Wear shoes with conductive soles.
	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,	including any incompatibilities
· Storage:	Pay attention to the special requirements of your local autorithies for storing dangerous goods.
· Requirements to be met by	r ay attention to the special requirements of your local autonanies for storing dangerous goods.
• •	Store only in the original recontrole
storerooms and receptacles:	Store only in the original receptacle.
	Prevent any seepage into the ground.
Information shout stores in	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.
	Store under lock and key and out of the reach of children.
Recommended storage	
temperature (To maintain	
quality):	max.: +25 °C
Storage class:	5.2
7.3 Specific end use(s)	No further relevant information available.
	GB

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

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· 8.1 Control parameters

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**SECTION 8: Exposure controls/personal protection** 

	ts with limit	values	
that requi	re monitorin	g at the	
workplace	9:		The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
	menthane,	monohydro	operoxy derivative
	,		0.15 mg/kg bw/day (Worker)
1	DNEL Longte	erm Local	0.003 mg/kg bw/day (Worker)
Inhalative	DNEL Longte	erm System	0.62 mg/m3 (Worker)
99-82-1 1-i	sopropyl-4-n	nethylcyclo	bhexane
Dermal	DNEL Longte	erm System	1.1 mg/kg bw/day (Worker)
Inhalative	DNEL Longte	erm System	7.7 mg/m3 (Worker)
PNECs			·
26762-92-5	5 menthane,	monohydro	operoxy derivative
	inewater sed		
PNEC Fres	shwater	0.00085 m	g/l (AF 2.000)
PNEC Fres	shwater sed	0.0273 mg	/kg sed dw
PNEC Soil		0.00497 m	g/kg soil dw
PNEC STP		0.481 mg/l	(AF 100)
PNEC Mari	inewater	0.000085 n	ng/l (AF 20.000)
	sopropyl-4-n		
	inewater sed	0	0
PNEC Fres			g/l (AF 1.000)
	shwater sed	0.131 mg/k	
PNEC Soil		2 mg/kg so	
PNEC STP		100 mg/l (A	
PNEC Mari			ng/l (AF 10.000)
· Additiona	al informatio	n:	The lists valid during the making were used as basis.
Appropria controls	ure controls ite engineeri	•	No further data; see section 7.
			such as personal protective equipment
	protective an measures:		The usual precautionary measures are to be adhered to when handling chemicals.
nygionie	mououroor		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 contact with the eyes and skin.
			Do not eat, drink, smoke or sniff while working.
			Use skin protection cream for skin protection.
Despirate	ory protectio		Be sure to clean skin thoroughly after work and before breaks. Not necessary if room is well-ventilated.
Respirate	ory protectio		
			Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.
· Hand pro	otection		Filter A2 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
Motorial	of gloves		Protective gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of
Material	of gloves		quality and varies from manufacturer to manufacturer. Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene
· Penetrat	tion time of g		
material			The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be
			observed. (Contd. on page 5
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• Eye/face protection Tightly sealed goggles	3
· Body protection:	
Protective work clothin	ng
SECTION 9: Physical and chemical properties	
<ul> <li>9.1 Information on basic physical and chemical properties</li> <li>General Information</li> </ul>	
· Colour:	Light yellow
· Odour:	Characteristic
• Odour threshold:	Not determined.
<ul> <li>Melting point/freezing point:</li> <li>Boiling point or initial boiling point and boiling range</li> </ul>	Not applicable. Not applicable.
· Flammability	Not applicable.
· Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
<ul> <li>Flash point:</li> <li>Decomposition temperature:</li> </ul>	
· pH	+70 °C (SADT) Not determined.
· Viscosity:	Not determined.
Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	8 mPas
· Solubility	
<ul> <li>water at 20 °C:</li> <li>Partition coefficient n-octanol/water (log value) at 20 °C</li> </ul>	4 g/l 2 76 log POW/
· Vapour pressure at 20 °C:	2.76 log POW 5 hPa
Density and/or relative density	
Density at 20 °C:	0.875 - 0.920 g/cm³
Relative density	Not determined.
· Vapour density	Not determined.
• 9.2 Other information • Appearance:	No further relevant information available.
· Form:	Fluid
Important information on protection of health and environme	nt,
and on safety.	
· Ignition temperature: · Explosive properties:	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour
Explosive properties.	mixtures are possible.
· Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols · Oxidising gases	Void Void
· Gases under pressure	Void
· Flammable liquids	Flammable liquid and vapour.
Flammable solids	Void
• Self-reactive substances and mixtures	Void
· Pyrophoric liquids · Pyrophoric solids	Void 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 Heating may cause a fire
· Organic peroxides · Corrosive to metals	Heating may cause a fire. Void
· Desensitised explosives	Void
· · · · · · · · · · · · · · · · · · ·	(Contd. on page 6)

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<ul> <li>Other safety characteristics</li> <li>Active oxygen</li> </ul>	4.6 - 5.1 %
SECTION 10: Stability and r	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 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. 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
<ul> <li>11.1 Information on hazard classing · Acute toxicity     </li> </ul>	sses as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.
· LD/LC50 values relevant for c	classification:
26762-92-5 menthane, monohy	

Orai	2,000 mg/kg (rau	us)
99-82-1	1-isopropyl-4-methylcyd	clohexane
Oral	LD50 >3,000 mg/kg (ratt	us)
Dermal	LD50 >2,000 mg/kg (ratt	us)
· Skin c	orrosion/irritation	Causes severe skin burns and eye damage.
· Seriou	is eye damage/irritation	Causes serious eye damage.
· Respir	ratory or skin	
sensit	isation	Based on available data, the classification criteria are not met.
· Germ	cell mutagenicity	Based on available data, the classification criteria are not met.
· Carcin	nogenicity	Based on available data, the classification criteria are not met.
· Repro	ductive 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	May cause damage to organs through prolonged or repeated exposure.
· Aspira	ation hazard	May be fatal if swallowed and enters airways.
· 11.2 Inf	formation on other hazar	ds
· Endoc	rine disrupting propertie	9S
None of	f the ingredients is listed.	

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

Aquatic toxicity:	
26762-92-5 menthane, monohydroperoxy derivative	
LC50 / 96h 1.7 mg/l (brachydanio rerio)	
EC50 / 48h 4 mg/l (daphnia)	
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<ul> <li>12.2 Persistence and degrada</li> <li>Degree of elimination:</li> </ul>	ıbility	
· Classification:		
26762-92-5 menthane, monoh	vdroperoxy derivative	
Degradation (Readily biodegra		
99-82-1 1-isopropyl-4-methylc		
Degradation (Readily biodegra	•	
· 12.3 Bioaccumulative potentia	,	
Partition coefficient: nOctan		
26762-92-5 menthane, monohy		2,76
99-82-1 1-isopropyl-4-meth		5,6 (25°C
· 12.4 Mobility in soil	No further relevant information available	0,0 (20 0
· 12.5 Results of PBT and vPvE		
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to UK REAC	H. annex XIII.
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to UK REAC	
12.6 Endocrine disrupting	Ŭ	,
properties	The product does not contain substances with endocrine disrupting properties.	
12.7 Other adverse effects	No further relevant information available.	
<ul> <li>Additional ecological information</li> </ul>	ation:	
General notes:	Must not reach sewage water or drainage ditch undiluted or unneutralised.	
	Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water	
	Do not allow product to reach ground water, water course or sewage system.	
	Danger to drinking water if even small quantities leak into the ground.	

· 13.1 Waste treatment methods

Recommendation



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.

<sup>1</sup> 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:

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

### **SECTION 14: Transport information**

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3109
<ul> <li>14.2 UN proper shipping name</li> <li>ADR</li> </ul>	UN3109 ORGANIC PEROXIDE TYPE F, LIQUID (p-MENTHYL HYDROPEROXIDE)
· IMDG, IATA	ORGANIC PEROXIDE TYPE F, LIQUID (p-MENTHYL HYDROPEROXIDE
· 14.3 Transport hazard class(es)	
ADR	
· Class · Label	5.2 (P1) Organic peroxides. 5.2
· Class	5.2 Organic peroxides.
· Label	5.2
<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	Void
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14.5 Environmental hazards:			
· Marine pollutant:	No		
14.6 Special precautions for user	Warning: Organic peroxides.		
Hazard identification number (Kemler code):	539		
Stowage Category	D		
· Stowage Code	SW1 Protected from sources of heat.		
· Segregation Code	SG35 Stow "separated from" SGG1-acids		
0.0	SG36 Stow "separated from" SGG18-alkalis.		
	SG72 See 7.2.6.3.2.		
· 14.7 Maritime transport in bulk according to IMO inst	ruments Not applicable.		
· Transport/Additional information:			
· ADR			
· Limited quantities (LQ)	125 ml		
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)	125 ml		
· Excepted quantities (EQ)	Code: E0		
	Not permitted as Excepted Quantity		

### SECTION 15: Regulatory information

· Regulated explosives precurs	ors
None of the ingredients is listed.	
· Regulated poisons	
None of the ingredients is listed.	
· Reportable explosives precurs	sors
None of the ingredients is listed.	
· Reportable poisons	
None of the ingredients is listed.	
<ul> <li>Directive 2012/18/EU</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>DIRECTIVE 2011/65/EU on the II</li> <li>None of the ingredients is listed.</li> </ul>	50 t
•	DSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.	
· Annex II - REPORTABLE EXPL	OSIVES PRECURSORS
None of the ingredients is listed.	
Regulation (EC) No 273/2004 c	on drug precursors
None of the ingredients is listed.	
Regulation (EC) No 111/2005 I precursors	aying down rules for the monitoring of trade between the Community and third countries in drug
None of the ingredients is listed.	

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· National regulations:

 $^{\cdot}$  Other regulations, limitations and prohibitive regulations

· Please note:	Take care of t	he 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	H226 Flammable liquid and vapour. H242 Heating may cause a fire. H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H373 May cause damage to organs through prolonged or repeated exposure.
<ul> <li>Department issuing SDS:</li> <li>Contact:</li> </ul>	Environment protection / Security of labour Tel: +49 2871 9902-0
• Abbreviations and acronyms:	E-mail: mail@pergan.com RID: Reglement 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 International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Society) DNEL: Derived No-Effect Level (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent DD50: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq, 3: Flammabel liquids – Category 3 Org. Perox. F: Organic peroxides – Type E/F Skin Corr. 1A: Skin corrosion/irritation – Category 1A Skin Irrit, 2: Skin corrosion/irritation – Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1
•	GB