

Printing date 03.04.2024

Version: 7 (replaces version 6)

Revision: 16.02.2023

11119 date 05.04.2024			Revision. 10.02.2
SECTION 1: Identification of	f the substance/n	nixture and of the company/undertaking	
1.1 Product identifier			
	PFROXA	N EPC S	
Trade name:			
CAS Number:	16111-62-9		
EC number:	240-282-4		
Registration number:	01-2119964452-3		
1.2 Relevant identified uses of t		ixture and uses advised against tinformation available.	
Application of the substance /			
the mixture	Reaction initiator For industrial use		
1.3 Details of the supplier of the	e safety data sheet		
Manufacturer/Supplier:	PERGAN GmbH		
	Hilfsstoffe für indu	istrielle Prozesse	
	Schlavenhorst 71		
	D-46395 Bocholt		
	Tel: +49 2871 990		
	Fax: +49 2871 990	02-50	
Further information obtainable from:		ection / Security of labour	
nom.		E-mail: msds@pergan.com	
1.4 Emergency telephone	Quantos poroon.		
number:	- Tel: +49 2871 99	902-0	
SECTION 2: Hazards identifi	ication		
2.1 Classification of the substa	nce or mixture		
Classification according to Re		272/2008	
	- · ·		
Org. Perox. C H242 Heating ma			
Skin Irrit. 2 H315 Causes skir	n irritation.		
Eye Dam. 1 H318 Causes seri	ious eye damage.		
Skin Sens. 1 H317 May cause	an allergic skin reac	tion.	
2.2 Label elements			
Labelling according to			
Regulation (EC) No 1272/2008	The substance is	classified and labelled according to the CLP regulation.	
· Hazard pictograms			
	GHS02 GHS05 G	HS07	
· Signal word	Danger		
· Hazard-determining	Dungoi		
components of labelling:	bis(2-ethylhexyl) p	peroxydicarbonate	
· Hazard statements	H242 Heating may		
	H315 Causes skir		
	H318 Causes seri		
		an allergic skin reaction.	
· Precautionary statements	P210	Keep away from heat, hot surfaces, sparks, open flames and	d other ignition sources.
		smoking.	Ç
	P220	Keep away from dirt, rust, chemicals in particular concentrat	ed acids, alkalis and
		accelerators (e. g. heavy metal compounds and amines).	
	P234	Keep only in original packaging.	
	P264	Wash thoroughly after handling.	
	P273	Avoid release to the environment.	
	P280	Wear protective gloves/protective clothing/eye protection/fac	e protection/hearing
		protection.	Demenus cont. 11
	P305+P351+P338	B IF IN EYES: Rinse cautiously with water for several minutes	. Remove contact lense
	D310	present and easy to do. Continue rinsing.	
	P310	Immediately call a POISON CENTER/doctor.	
	P410 P411+P235	Protect from sunlight.	
	P411+P235 P420	Store at temperatures not exceeding -20°C. Keep cool. Store separately.	
	P420 P501	Dispose of contents/container in accordance with local/regio	nal/national/internationa
	1 301	regulations.	กละกลแบกล/กแรกลแบกล
2.3 Other hazards		-	
Results of PBT and vPvB asse PBT:		pes not meet the PBT/vPvB criteria of REACH, Annex XIII.	
· vPvB:		bes not meet the PBT/vPvB criteria of REACH, Annex XIII.	
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Determination of endocrine- disrupting properties	(Contd. of page The product does not contain substances with endocrine disrupting properties.
SECTION 3: Composition/inf	ormation on ingredients
3.1 Substances CAS No. Description	16111-62-9 bis(2-ethylhexyl) peroxydicarbonate
Identification number(s) · EC number:	240-282-4
SECTION 4: First aid measur	es
4.1 Description of first aid meas	ures
General information:	Take care of personal protection for the first aider.
After inhalation:	Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. Take affected persons into fresh air and keep quiet.
After skin contact:	Immediately wash with water and soap and rinse thoroughly. Immediately remove contaminated clothing.
After eye contact: After swallowing: 4.2 Most important symptoms	Rinse opened eye for several minutes under running water. Then consult a doctor. If symptoms persist consult doctor.
and effects, both acute and delayed 4.3 Indication of any immediate	No further relevant information available.
medical attention and special treatment needed	No further relevant information available.
SECTION 5: Eirofighting mag	surge
	sures
5.1 Extinguishing media Suitable extinguishing agents:	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
5.1 Extinguishing media Suitable extinguishing agents: 5.2 Special hazards arising from the substance or mixture	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
5.1 Extinguishing media Suitable extinguishing agents: 5.2 Special hazards arising from the substance or mixture 5.3 Advice for firefighters	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid. Do not inhale explosion gases or combustion gases.
5.1 Extinguishing media Suitable extinguishing agents: 5.2 Special hazards arising from the substance or mixture 5.3 Advice for firefighters Protective equipment:	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid.
5.1 Extinguishing media Suitable extinguishing agents: 5.2 Special hazards arising from the substance or mixture 5.3 Advice for firefighters Protective equipment: Additional information	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 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. Self-protection first!
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5.1 Extinguishing media Suitable extinguishing agents: 5.2 Special hazards arising from the substance or mixture 5.3 Advice for firefighters Protective equipment: Additional information SECTION 6: Accidental relea 6.1 Personal precautions, protective equipment and emergency procedures 6.2 Environmental precautions:	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 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. Self-protection first! se measures Keep away from ignition sources. In case of further temperature should be cooled with waterspray from a safe distance.
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SECTION 5: Firefighting mea 5.1 Extinguishing media Suitable extinguishing agents: 5.2 Special hazards arising from the substance or mixture 5.3 Advice for firefighters Protective equipment: Additional information SECTION 6: Accidental relea 6.1 Personal precautions, protective equipment and emergency procedures 6.2 Environmental precautions: 6.3 Methods and material for containment and cleaning up:	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 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. Self-protection first! Se measures 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. Wear protective equipment. Keep unprotected persons away. Do not allow to enter sewers/ surface or ground water. Ensure adequate ventilation.
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SECTION 7: Handling and storage

· 7.1 Precautions for safe		
handling	Keep receptacles tight	lv sealed
nanding		in tightly closed receptacles.
	Keep away from heat	
		n/exhaustion at the workplace.
	Open and handle rece	
	Prevent formation of a	
		bry protective device when decanting larger quantities without extractor facilities.
	Do not refill residue in	
	Restrict the quantity st	
	Use only in well ventila	
		e end of work hands should be thoroughly washed.
		f suitable materials (e. g. polyethylene or stainless steel).
		ust, chemicals in particular concentrated acids, alkalis and accelerators (e.g. heavy-
	metal compounds and	
	Avoid contact with skin	and eyes.
	While using do not eat	, drink or smoke.
	Do not generate flame	s or sparks.
		tied container away from heat and sources of ignition.
	Avoid shock and friction	n.
	Take precautionary me	easures against static discharges.
	🚯 Do not smoke	
 Information about fire - and 		
explosion protection:	Protect from heat.	
	Protect against electro	static charges.
	Prevent impact and fri	stion.
	Use explosion-proof a	paratus / fittings and spark-proof tools.
	Fumes can combine w	ith air to form an explosive mixture.
	Wear shoes v	ith conductive soles.
	Formation of	ammable or explosive gas/air-mixtures is possible.
	Avoic	open flames, sparks, direct sunlight and other sources of ignition.
		in itin a sum of the state of the
	кеер	ignition sources away - Do not smoke.
· 7.2 Conditions for safe storage,	ncluding any incomp	tibilities
Storage:		ecial requirements of your local autorithies for storing dangerous goods.
Requirements to be met by	,	1 5 5 5
storerooms and receptacles:	Store in a cool location	
	Store only in the origin	
	Prevent any seepage	
		pecifically permitted for this substance/product.
Information about storage in	,	· · · · · · · · · · · · · · · · · · ·
one common storage facility:	Do not store or park of	ganic peroxide together with heavy metal compounds and amines.
ene common storage homey.		tuffs, drinks and feeding stuffs.
• Further information about	clore anay non rood	
storage conditions:	Keep container tightly	helea
storage conditions.		itions in well sealed receptacles.
	Protect from heat and	direct sunlight
	Protect from contamin	
	Store in a cool place.	
	Storage in a collecting	room is required
· Recommended storage	Storage in a concelling	room to roquirou.
temperature (To maintain	20 20 °C	
quality):	-3020 °C	
Control temperature:	-20 °C	
Emergency temperature:	-10 °C	
Storage class:	5.2	
[.] 7.3 Specific end use(s)	No further relevant info	
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	re controls/personal protection
8.1 Control parameters Ingredients with limit that require monitorin workplace:	values
DNELs	Not roquirou.
	exyl) peroxydicarbonate
	rm System 6,67 mg/kg bw/day (Worker)
-	rm System 11,75 mg/m3 (Worker)
·PNECs	
	exyl) peroxydicarbonate
	0,0228 mg/kg sed dw (-)
PNEC Freshwater	0,032 mg/l (AF 50)
PNEC Freshwater sed	
PNEC Soil	0,0269 mg/kg soil dw (-)
PNEC STP	1,5 mg/l (AF 10)
PNEC Marinewater	0,0032 mg/l (AF 500)
· Additional informatio	
8.2 Exposure controls Appropriate engineeri controls	ng No further data; see section 7.
General protective ar hygienic measures: Respiratory protectio	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. 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.
· Hand protection	Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated. 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
• 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 g material 	
· Eye/face protection	Tightly sealed goggles
· Body protection:	Protective work clothing

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SECTION 9: Physical and chemical properties	
 9.1 Information on basic physical and chemical properties General Information 	
Colour:	Colourless
Odour:	Characteristic
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	Not applicable.
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not determined.
· Decomposition temperature:	0 °C (SADT)
· pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
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:	0,995 g/cm³
· Relative density	Not determined.
Vapour density	Not determined.
 Appearance: Form: Important information on protection of health and environment, 	Fluid
and on safety.	
Ignition temperature:	Not determined.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Change in condition	
· Evaporation rate	Not determined.
•	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	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
	TOIN

SECTION 10: Stability and reactivity

10.1 Reactivity
 10.2 Chemical stability

· Thermal decomposition / conditions to be avoided: No further relevant information available.

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 selfaccelerating 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.

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	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.
· 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 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: 16111-62-9 bis(2-ethylhexyl) peroxydicarbonate LD50 >2.000 mg/kg (rattus) Oral Dermal LD50 >2.000 mg/kg (rattus) · Skin corrosion/irritation Causes skin irritation. · Serious eye damage/irritation Causes serious eye damage. · 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. Based on available data, the classification criteria are not met. STOT-repeated exposure • Aspiration hazard Based on available data, the classification criteria are not met. 11.2 Information on other hazards · Endocrine disrupting properties Substance is not listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

- 12.2 Persistence and degradability
- · Degree of elimination:

· Classification:

· Classification:		
16111-62-9 bis(2-ethylhexy	/l) peroxydicarbonate	
Degradation (Readily biode	egradable) (OECD 301 B)	
· 12.3 Bioaccumulative pote	ential	
Partition coefficient: nOo	stanol/water: [Log Kow]	
		2,73
· 12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and v	PvB assessment	
· PBT:	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	
· vPvB:	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	
· 12.6 Endocrine disrupting		
properties	The product does not contain substances with endocrine disrupting properties.	
12.7 Other adverse effects		
· Additional ecological info	ormation:	
· General notes:	Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water	
	Do not allow product to reach ground water, water course or sewage system.	
	Dependente duinking water if even and all averabilities look into the analysis	

Danger to drinking water if even small quantities leak into the ground.

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· RID / GGVSEB:	no admission
 Transport category Tunnel restriction code 	1 D
ADR · Limited quantities (LQ) · Excepted quantities (EQ)	0 Code: E0 Not permitted as Excepted Quantity
Transport/Additional information:	
•	ording to IMO instruments Not applicable.
Segregation Code	SW3 Shall be transported under temperature control. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
Stowage Category Stowage Code	D SW1 Protected from sources of heat.
14.6 Special precautions for user Hazard identification number (Ker	
Marine pollutant:	No Warrian Oranja nagovida
ADR, IMDG	Void
· Label I4.4 Packing group	Χ
IATA • Class	X
Class Label	5.2 Organic peroxides. 5.2
Label	5.2 (F2) Organic peroxides. 5.2
Class	5.2 (P2) Organic peroxides.
ADR	
4.3 Transport hazard class(es)	
ADR IMDG	UN3113 ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLED (DI-(2-ETHYLHEXYL)-PEROXYDICARBONATE) ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLE (DI-(2-ETHYLHEXYL)-PEROXYDICARBONATE)
ADR, IMDG 14.2 UN proper shipping name	
I4.1 UN number or ID number	
SECTION 14: Transport informa	tion
Uncleaned packaging: • Recommendation: The	nis material and its container must be disposed of as hazardous waste.
	system. ease contact your hazardous waste disposers to assign the right EWC-(European waste catalog)- umber.
	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
I3.1 Waste treatment methods Recommendation	After diluting with a suitable desentisation agent to 10 %, the solution must be supplied to a spe

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· IMDG	
· Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· IATA	
· Remarks:	no admission
· Control temperature:	-20 °C
· Emergency temperature:	-10 °C

SECTION 15: Regulatory information

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

 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 	50 t
requirements	200 t
REGULATION (EC) No	
1907/2006 ANNEX XVII	Conditions of restriction: 3
· DIRECTIVE 2011/65/EU on the re	estriction of the use of certain hazardous substances in electrical and electronic equipment – Annex
Substance is not listed.	
· REGULATION (EU) 2019/1148	
Annex I - RESTRICTED EXPLO	SIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
Substance is not listed.	
Annex II - REPORTABLE EXPL	OSIVES PRECURSORS
Substance is not listed.	
· Regulation (EC) No 273/2004 or	n drug precursors
Substance is not listed.	
 Regulation (EC) No 111/2005 la precursors 	ying down rules for the monitoring of trade between the Community and third countries in drug
Substance is not listed.	

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: 	Environment protection / Security of labour
Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
 Version number of previous 	
version:	6
 Abbreviations and acronyms: 	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 Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American 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. C: Organic peroxides – Type C/D Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1
• * Data compared to the previous version altered	

previous version altered.