Printing date 03.04.2024

Version: 9 (replaces version 8)

The Peroxide Company

Revision: 05.07.2023

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

· 1.1 Product identifier

## **PEROXAN EPC-50 WN-A IBC**

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

## **SECTION 2: Hazards identification**

<ul> <li>2.1 Classification of the substance or mixture</li> <li>Classification according to Regulation (EC) No 1272/2008</li> </ul>		
Org. Perox. F	H242 Heating may cause a fire.	
Skin Irrit. 2	H315 Causes skin irritation.	
Eye Dam. 1	H318 Causes serious eye damage.	

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 1 H370 Causes damage to the central ne system and the visual organs . . . . . . .

#### · 2.2 ·La

STOT SE 1 H370 Causes dam	ge to the central nervous system and the visual organs.
<ul> <li>2.2 Label elements</li> <li>Labelling according to Regulation (EC) No 1272/2008</li> <li>Hazard pictograms</li> </ul>	The product is classified and labelled according to the CLP regulation.
· Signal word	Danger
<ul> <li>Hazard-determining components of labelling:</li> </ul>	bis(2-ethylhexyl) peroxydicarbonate methanol
· Hazard statements	H242 Heating may cause a fire. H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H370 Causes damage to the central nervous system and the visual organs.
• Precautionary statements	P210       Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.         P220       Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines).         P234       Keep only in original packaging.         P264       Wash thoroughly after handling.         P280       Wear 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.         P310       Immediately call a POISON CENTER/doctor.         P362+P364       Take off contaminated clothing and wash it before reuse.         P410       Protect from sunlight.         P410       Protect from sunlight.         P411+P235       Store at temperatures not exceeding -20°C. Keep cool.
· 2.3 Other hazards · Results of PBT and vPvB asses · PBT:	
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. (Contd. on page 2)

Printing date 03.04.2024

Version: 9 (replaces version 8)

The Peroxide Company

Revision: 05.07.2023

(Contd. of page 1)

## Trade name: PEROXAN EPC-50 WN-A IBC

<ul> <li>Determination of endocrine-</li> </ul>	
disrupting properties	

The product does not contain substances with endocrine disrupting properties.

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

· Dangerous components:		
CAS: 16111-62-9 EINECS: 240-282-4 Reg-No.: 01-2119964452-35	bis(2-ethylhexyl) peroxydicarbonate Org. Perox. C, H242; Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317	40-50%
CAS: 67-56-1 EINECS: 200-659-6 Index number: 603-001-00-X Reg-No.: 01-2119433307-44	methanol Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370 Specific concentration limits: STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %	10-20%
CAS: 9005-65-6	Polyoxyethylensorbitanmonooleate Aquatic Chronic 3, H412	1-2,5%
· 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

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 General information:

Take care of personal protection for the first aider.

hours after the accident.

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. 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. Call for a doctor immediately. 4.2 Most important symptoms and effects, both acute and No further relevant information available. 4.3 Indication of any immediate medical attention and special No further relevant information available.

### **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

· After inhalation:

· After skin contact:

· After eye contact: · After swallowing:

treatment needed

delayed

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

## **SECTION 6: Accidental release measures**

<ul> <li>6.1 Personal precautions, protective equipment and emergency procedures</li> </ul>	Keep away from ignition sources.
0 91	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.
<ul> <li>6.2 Environmental precautions:</li> </ul>	
	Do not allow to enter sewers/ surface or ground water.

Printing date 03.04.2024

Version: 9 (replaces version 8)

• ) The Peroxide Company

Revision: 05.07.2023

# Trade name: PEROXAN EPC-50 WN-A IBC

	(Contd. of page 2)
<ul> <li>6.3 Methods and material for containment and cleaning up:</li> </ul>	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.
<ul> <li>6.4 Reference to other sections</li> </ul>	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**

OLOTION 7. Handling and St	
· 7.1 Precautions for safe	
handling	Keep away from heat and direct sunlight.
nananig	Ensure good ventilation/exhaustion at the workplace.
	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.
	Use only in well ventilated areas.
	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.
expression protoction	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.
	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:	
0	Pay attention to the special requirements of your local autorithies for storing dangerous goods.
• Requirements to be met by	
storerooms and receptacles:	Store only in the original receptacle.
	Prevent any seepage into the ground.
	Use only receptacles specifically permitted for this substance/product.
<ul> <li>Information about storage in</li> </ul>	
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.
<ul> <li>Further information about</li> </ul>	
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.
	Storage in a collecting room is required.
Recommended storage	
temperature (To maintain	
quality):	-2015 °C
	-20 15 C 5.2
· Storage class:	5.2 (Contd. on page 4)
	(Conto. on page 4)

Printing date 03.04.2024

Version: 9 (replaces version 8)



Revision: 05.07.2023

# Trade name: PEROXAN EPC-50 WN-A IBC

Dermal DNEL Longterm System       20 mg/kg bw/day (Worker)         Inhalative       DNEL Longterm System       130 mg/m3 (Worker)         Istill-62-9 bis(2-ethylbexyl) peroxydicarbonate       PNECS         PNEC Marinewater sed       0.0228 mg/kg sed dw (-)         PNEC Freshwater       0.0228 mg/kg sed dw (-)         PNEC Streshwater sed       0.0228 mg/kg sed dw (-)         PNEC Streshwater sed       0.0228 mg/kg sol dw (-)         PNEC Streshwater sed       0.0289 mg/kg sol dw (-)         PNEC Streshwater sed       0.0289 mg/kg sol dw (-)         PNEC Streshwater sed       0.0289 mg/kg sol dw (-)         PNEC Streshwater sed       0.032 mg/l (AF 10)         PNEC Streshwater sed       0.032 mg/l (AF 50)         Additional information:       The lists valid during the making were used as basis.         8.2 Exposure controls       Appropriate engineering controls         Appropriate engineering controls       No further data; see section 7.         Individual protective and hygienic measures: such as personal protective equipment       Store protective all solied and contaminated clothing Wash hands before breaks and at the end of work.         Store protective clothing separately.       Avoid close or long term controls         No not eat, drink, smoke or sniff while working.       Use skin protection cream for skin protection.         Be sure to clean s	7.3 Specific end use(s)	) No further relevant information available. (Contd. of pag
Ingredients with limit values that require monitoring at the workplace:          67.65.1 methanol         67.65.1 methanol         DOELV (EU)       Long-term value: 260 mg/m², 200 ppm         James Control       Sample S	SECTION 8: Exposu	re controls/personal protection
Ingredients with limit values that require monitoring at the workplace:          67.65.1 methanol         67.65.1 methanol         DOELV (EU)       Long-term value: 260 mg/m², 200 ppm         James Control       Sample S	8.1 Control parameters	
67-56-1 methanol         DOELV (EU)         Long-term value: 280 mg/m <sup>2</sup> , 200 ppm Sk         WEL (Great Birlan)         Shot-term value: 283 mg/m <sup>2</sup> , 200 ppm Sk         DOELS         1511-62-9 big(2-ethylhexyl) peroxydicarbonate         Dormal [DNEL Longterm System 10,57 mg/kg bw/day (Worker)         Inhilative [DNEL Longterm System 11,75 mg/m3 (Worker)         Prest         PREC 5         16111-62-9 big(2-ethylhexyl) peroxydicarbonate         Dermal [DNEL Longterm System 120 mg/kg bw/day (Worker)         Inhilative [DNEL Longterm System 120 mg/kg bw/day (Worker)         Inhilative [DNEL Longterm System 120 mg/kg sed dw (-)         PNEC 5         16111-62-9 big(2-ethylhexyl) peroxydicarbonate         PNEC 5         16111-62-9 big(2-thylhexyl) peroxydicarbonate         PNEC 5	•	
DOELV (EU)       Long-term value: 260 mg/m², 200 ppm Skin         WEL (Great Britain)       Short-term value: 333 mg/m², 200 ppm Sk         ONELs       Image: Stand	•	
Skin       Skin         WEL (Great Birkin)       Short-term value: 333 mg/m², 200 ppm Sk         IDNELs       Interpretation (Sring)         101162-9 bis(2-athylhexyl perxydicarbonate Dermal DNEL Longterm System (Sr mg/kg bw/day (Worker)       Dermal DNEL Longterm System (Sr mg/kg bw/day (Worker)         101162-9 bis(2-athylhexyl) perxydicarbonate Dermal DNEL Longterm System (20 mg/kg bw/day (Worker)       Dermal DNEL Longterm System (20 mg/kg bw/day (Worker)         101161-23-0 bis(2-athylhexyl) perxydicarbonate       PNECs         PNEC Marinewater sed (0.022 mg/kg sed dw (-)       PNEC Freshwater (0.032 mg/k (Sr 50)         PNEC Freshwater (0.032 mg/k (Sr 50)       Dermal (K F 10)         PNEC Freshwater (0.032 mg/k (Sr 50)       Dermal (K F 10)         PNEC Marinewater (0.032 mg/k (Sr 50)       Dermel (K F 10)         PNEC Marinewater (0.032 mg/k (Sr 50)       Dermel (Sr 50)         2 Exposure controls       No further data; see section 7.         Appropriate engineering controls       No further data; see section 7.         Individual protective and hyglenic measures, such as personal protective equipment       General protective and the modo work, Store protective dothing weah marks blower braks and the end ow work, Store protective dothing weah marks blower braks and shin.         Protection       Only use chemical-protective dothing protective dave, ship roportection, Be suitable respiratory device when it exceed exposure limit and when insufficiently ventilated. Firet A <td></td> <td>ng-term value: 260 mg/m³, 200 ppm</td>		ng-term value: 260 mg/m³, 200 ppm
Long-term value: 266 mg/m³, 200 ppm Sk         IDNELs         1611-62-9 bis(2-totlythexyl perxydicarbonate Dormal DNEL Longterm System (6,67 mg/kg bw/day (Worker) Inhalative DNEL Longterm System (17,7 mg/m3 (Worker) DNEL Longterm System (20 mg/kg bw/day (Worker) Inhalative DNEL Congterm System (20 mg/kg bw/day (Worker) Intervention (20 mg/kg bw/day (20 mg/k		in
DNELs       1         16111-629 bis(2-ethylhexyl) peroxydicarbonate       1.75 mg/m3 (Worker)         Dermal       DNEL Longterm System       1.1.75 mg/m3 (Worker)         Drain       DNEL Longterm System       20 mg/kg bw/day (Worker)         Dhalative       DNEL Longterm System       20 mg/kg bw/day (Worker)         Damal       DNEL Longterm System       20 mg/kg bw/day (Worker)         Damal       DNEL Longterm System       20 mg/kg bw/day (Worker)         Demal       DNEL Longterm System       20 mg/kg bw/day (Worker)         FNECS       Forsthwater Sed       0.0228 mg/kg sed dw (-)         PNEC Strip       0.028 mg/kg sed dw (-)       PNEC Strip Mg/kg sed dw (-)         PNEC Strip       1.5 mg/ (AF 50)       PNEC Marinewater sed       0.032 mg/ (AF 50)         Additional Information:       The list vaiid during the making were used as basis.       3.2 Exposure controls         Appropriate engineering       No further data; see section 7.       Individual protection measures, such as personal protective equipment         Orderal protective and       hygienic measures:       The usual precautionary measures are to be adhered to when handling chemicals.         Keep away from foodsluffs, beverages and feed.       Inmediatel dofting       Wash hands before breaks and at the end of work.         Store protective clotiming separately.	Loi	ng-term value: 266 mg/m³, 200 ppm
15111-22-9 bis(2-sthylhexyl) peroxydicarbonate         Dermal       DNEL Longterm System (6.67 mg/kg bw/day (Worker)         Inhalative [DNEL Longterm System]       120 mg/kg bw/day (Worker)         Inhalative [DNEL Longterm System]       120 mg/kg bw/day (Worker)         Inhalative [DNEL Longterm System]       120 mg/kg sod dw (-)         PNECs       0.0228 mg/kg sod dw (-)         PNEC Freshwater sed       0.0228 mg/kg sod dw (-)         PNEC Structure       0.0228 mg/kg sod dw (-)         PNEC Structure       0.0228 mg/kg sod dw (-)         PNEC Structure       0.0322 mg/kg sod dw (-)         PNEC Structure       0.0328 mg/kg sod dw (-)         PNEC Structure       The Istu all during the making were used as basis.         3.2 Exposure controls       No further data; see section 7.         Individual protection measures, such as personal protective equipment       -         • General protective modestares, such as personal protective and skin.       Do not eat, drink, smoke or sn		
Defmal         DNEL Longterm System         6.7 mg/kg bw/day (Worker)           Inhatative         DNEL Longterm System         11.75 mg/m3 (Worker)           67.64-1 mathanol         DNEL Longterm System         20 mg/kg bw/day (Worker)           Inhatative         DNEL Longterm System         0.0228 mg/kg sol dw (-)           PNEC Freshwater         0.0228 mg/kg sol dw (-)         PNEC Freshwater         0.0280 mg/kg sol dw (-)           PNEC Freshwater         0.0280 mg/kg sol dw (-)         PNEC Freshwater         0.0280 mg/kg sol dw (-)           PNEC STP         1,5 mg/l (AF 10)         PNEC Karinewater         0.0280 mg/kg sol dw (-)           Additional information:         The lists valid during the making were used as basis.         8.2 Exposure controls           Appropriate engineering         Ontotar inthe data: see section 7.         Inhatative Bu/kg (Morker)           Inhative Bu/kg with an enginationary measures are to be adhered to when handling chemicals.         Kop awg (Fon footastiff). Everages and fed.           General		nexyl) neroxydicarbonate
Inhilative DNEL Longterm System 11.75 mg/m3 (Worker) 67-64-1 methanol 67-64-1 methanol DNEL Longterm System 20 mg/kg bw/day (Worker) Inhilative DNEL Longterm System 20 mg/kg bw/day (Worker) PNECs FNECs FORECs FOREC methanol PNEC restwater 0,032 mg/kg sed dw (-) PNEC Freshwater 0,032 mg/kg sed dw (-) PNEC Freshwater 0,032 mg/kg sed dw (-) PNEC Soil 0,0280 mg/kg soil dw (-) PNEC Soil 0,0280 mg/kg soil dw (-) PNEC Soil 0,0280 mg/kg soil dw (-) PNEC Soil 0,0320 mg/kg Soil dw (-) PNEC Soil Soil dw (-) Soil dw (-)		
67-56-1 methanol         Dermal       DNEL Longterm System         120 miniative       DNEL Longterm System         131 headative       DNEL Longterm System         131 headative       DNEL Congterm System         131 headative       DNEL Congterm System         131 headative       DNEC Antinewater sed         131 headative       DNEC Freshwater         0.0228 mg/kg sed dw (-)       DNEC Freshwater         PNEC Freshwater       0.0228 mg/kg sed dw (-)         PNEC Freshwater       0.0289 mg/kg soil dw (-)         PNEC Stational information:       The lists valid during the making were used as basis.         8.2 Exposure 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 soled and contaminated clothing         Wash hands before breaks and at the end of work.       Store protection.         Store protective colting sequrately.       Avoid close or long term contact with the eysan dskin.         Do no teat, drink, smoke or sniff while working.       Use skin thoroughy after work and before breaks.         In case of brief exposure or low poliution		
Inhalative DNEL Longterm System 130 mg/m3 (Worker) PNECs FORCS FORCS FORCS FORCS FORC Status FOR FOR FOR FOR FOR Status FOR FOR FOR FOR FOR Status FOR FOR FOR FOR STATUS FOR FOR FOR FOR FOR STATUS FOR	67-56-1 methanol	
Inhalative DNEL Longterm System 130 mg/m3 (Worker) PNECs FORCS FORCS FORCS FORCS FORC Status FOR FOR FOR FOR FOR Status FOR FOR FOR FOR FOR Status FOR FOR FOR FOR STATUS FOR FOR FOR FOR FOR STATUS FOR	Dermal DNEL Longte	erm System 20 mg/kg bw/day (Worker)
16111-62-9 bis(2-ethylkexyl) peroxydicarbonate         PNEC Kreshwater ed       0,0228 mg/kg sed dw (-)         PNEC Freshwater ed       0,028 mg/kg sed dw (-)         PNEC Streshwater ed       0,028 mg/kg sed dw (-)         PNEC Streshwater ed       0,0228 mg/kg sed dw (-)         PNEC Streshwater ed       0,0228 mg/kg sed dw (-)         PNEC Streshwater ed       0,0232 mg/ (AF 500)         • Additional information:       The lists valid during the making were used as basis.         8.2 Exposure controls       No further data: see section 7.         Appropriate engineering       No further data: see section 7.         Individual protection measures, such as personal protective equipment       •         • General protective and       The usual precautionary measures are to be adhered to when handling chemicals.         • Keep away from foodstuffs, beverages and feed.       Immediately remove all solied and contaminated clothing         Wash hands before breaks and at the end vork.       Store protective clothing the working.         Use suitable respiratory protection:       Do not eat, drink, smoke or snift while working.         Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.         • Hand protection       Only use chemical-protective gloves with CE-labelling of category III.         • Waterial of gloves       The selection of the suitable gloves does no		
16111-62-9 bis(2-ethylkexyl) peroxydicarbonate         PNEC Kreshwater ed       0,0228 mg/kg sed dw (-)         PNEC Freshwater ed       0,028 mg/kg sed dw (-)         PNEC Streshwater ed       0,028 mg/kg sed dw (-)         PNEC Streshwater ed       0,0228 mg/kg sed dw (-)         PNEC Streshwater ed       0,0228 mg/kg sed dw (-)         PNEC Streshwater ed       0,0232 mg/ (AF 500)         • Additional information:       The lists valid during the making were used as basis.         8.2 Exposure controls       No further data: see section 7.         Appropriate engineering       No further data: see section 7.         Individual protection measures, such as personal protective equipment       •         • General protective and       The usual precautionary measures are to be adhered to when handling chemicals.         • Keep away from foodstuffs, beverages and feed.       Immediately remove all solied and contaminated clothing         Wash hands before breaks and at the end vork.       Store protective clothing the working.         Use suitable respiratory protection:       Do not eat, drink, smoke or snift while working.         Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.         • Hand protection       Only use chemical-protective gloves with CE-labelling of category III.         • Waterial of gloves       The selection of the suitable gloves does no	•	
PNEC Marinewater sed       0,022 mg/kg sed dw (-)         PNEC Freshwater       0,028 mg/kg sed dw (-)         PNEC Freshwater sed       0,028 mg/kg sed dw (-)         PNEC Stater sed       0,028 mg/kg sed dw (-)         PNEC Marinewater       0,0028 mg/kg sed dw (-)         PNEC Marinewater sed       0,028 mg/kg sed dw (-)         Additional information:       The lists valid during the making were used as basis.         8.2 Exposure 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 solied and contaminated clothing       Wash hands before breaks and at the end of work.         Store protective clothing separately.       Avoid contact with the eyes and skin.         Avoid contact with the eyes and skin.       Do not eat, dirink, smoker or shin protection.         Be sure to clean skin thoroughy affer work and before breaks.       In case of brief exposure or low pollution use respiratory file device. In case of intensive or longer exposure use self-contained respiratory protec		nexyl) peroxydicarbonate
PNEC Freshwater       0,032 mg/(ÅF 50)         PNEC Sill       0,228 mg/kg sed dw (-)         PNEC Sill       0,028 mg/kg soil dw (-)         PNEC STP       1,5 mg/l (ÅF 10)         PNEC Sill       0,028 mg/kg soil dw (-)         PNEC Sill       0,028 mg/kg soil dw (-)         PNEC STP       1,5 mg/l (ÅF 50)         Additional information:       The lists valid during the making were used as basis.         8.2 Exposure controls       No further data; see section 7.         Individual protection measures, such as personal protective equipment       General protective and         Ingrigenic measures:       The usual precautionary measures are to be adhered to when handling chemicals.         Keep away from foodstuffs, beverages and feed.       Immediately remove all solied 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 eyes and skin.       Do not eat, drink, smoke or sniff while working.         Use skin protection       Use suitable respiratory protective diving.         Use suitable respiratory protection:       In case of brief exposure or tow pollution use respiratory filter device. In case of intensive or longer exposure or tow pollution use respiratory filter device.         * Respiratory protection:       Only use chemical-protective device when it exceed exposure limit and when insufficien		
PNEC Freshwater sed       0.228 mg/kg sed dw (-)         PNEC Soil       0.0269 mg/kg soil dw (-)         PNEC Soil       0.0032 mg/l (AF 500)         Additional information:       The lists valid during the making were used as basis.         3.2 Exposure controls       No further data; see section 7.         Individual protection measures; such as personal protective equipment       No further data; see section 7.         Individual protection measures; such as personal protective equipment       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 close or long term contact with the skin.         Avoid close or long term contained respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective.         It case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory device.         It case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.         It case of brief exposure or low pollution use respiratory filter device. In case of diffusion and the gradation         Protective gloves       Sel		
PNEC Soil 0,0269 mg/kg soil dw (-) PNEC STP 1,5 mg/l (AF 10) PNEC Marinewater 0,0032 mg/l (AF 50) Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls Appropriate engineering controls No further data; see section 7. Individual protection measures, such as personal protective equipment General protective and hygienic measures: 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 and hygienic measures: Lease of high symptotic close of high symptotic close of high symptotic close of log symptotic close and log symptotic close of log symptotic close symptotic close close skills the symptotic close. • Respiratory protection: In case of bird symptotic close close symptotic close close skills of a suitable respiratory device when it exceed exposure limit and when insufficiently ventilated. • Hand protection Filter A2 • Hand protection 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. Butyli nubber, JBR Fluorocarbon rubber (Viton) Nitrile nubber, NBR Neoprene • Penetration time of gloves • Penetration time of gloves • Explificace protection • Explificace		
PNEC STP       1,5 mg/l (ÅF 10)         OU032 mg/l (ÅF 500)         • Additional information:         3.2 Exposure controls         Appropriate engineering controls         Appropriate engineering controls         No further data; see section 7. Individual protection measures, such as personal protective equipment         • General protection measures:         Waterial of gloves         • Respiratory protection:         • Respiratory protection         • Material of gloves         • Material of gloves         • Material of gloves         • Penetration time of glove material		
PNEC Marinewater       0,0032 mg/l (AF 500)         • Additional information:       The lists valid during the making were used as basis.         8.2 Exposure controls       The lists valid during the making were used as basis.         8.2 Exposure controls       No further data; see section 7.         Individual protection measures; such as personal protective equipment       •         • General protective and hygienc measures:       No further data; see section 7.         hygienic measures:       The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all solied and contaminated dothing         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. Be sure to clean skin thoroughly after work and before breaks. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.         • Hand protection       Only use chemical-protective gloves with CE-labelling of category III.         • Hand protection       Selection of the gloves from annufacturer to manufacturer. Butylit rubber, NBR Neoprene         • Material of 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. Butylit rubber, NBR Neoprene         • Penetration time of glove       Th		
Additional information:       The lists valid during the making were used as basis.         8.2 Exposure controls Appropriate engineering controls       No further data; see section 7.         Individual protection measures, such as personal protective equipment       General protective and hygienic measures:         Material of gloves       The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all solied 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. Be sure to clean skin thoroughly after work and before breaks. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.         • 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 t degradation Protective gloves         • Material of 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, IBR 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 observed.		
3.2 Exposure controls       Appropriate engineering       No further data; see section 7.         Individual protection measures, such as personal protective equipment       Individual protection measures, such as personal protective equipment         General protective and       The usual precautionary measures are to be adhered to when handling chemicals.         Keep away from foodstuffs, beverages and feed.       Immediately remove all solied 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.       Be sure to clean skin thoroughly after work and before breaks.         Respiratory protection:       In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.         Itel a protection       Confu use chemical-protective gloves with CE-labelling of category III.         Filter A2       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.         Veaterial of gloves       The selection of the glove from manufacturer to manufacturer.         Buty inuber, BR       Fluorocarbon rubber (Viton)         Nitriie rubber, NBR       Neoprene		
Keep away from foodsfuffs, beverages and feed. Immediately remove all solied 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 throroughly after work and before breaks. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.         • Respiratory protection       In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.         • 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 t degradation         • Material of 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, NBR 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 observed.	General protective an	measures, such as personal protective equipment nd
<ul> <li>Respiratory protection:</li> <li>Be sure to clean skin thoroughly after work and before breaks. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.</li> <li>Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated. Filter A2</li> <li>Hand protection</li> <li>Waterial of gloves</li> <li>Material of gloves</li> <li>Protective gloves</li> <li>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</li> <li>Penetration time of glove material</li> <li>Eve/face protection</li> </ul>	nygienic measures:	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.
<ul> <li>Hand protection</li> <li>Hand protection</li> <li>Filter A2</li> <li>Only use chemical-protective gloves with CE-labelling of category III.</li> <li>Selection of the glove material on consideration of the penetration times, rates of diffusion and t degradation</li> <li>Protective gloves</li> <li>Material of gloves</li> <li>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</li> <li>Penetration time of glove material</li> <li>The exact break trough time has to be found out by the manufacturer of the protective gloves and has to observed.</li> </ul>	· Respiratory protectio	Be sure to clean skin thoroughly after work and before breaks. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
<ul> <li>Hand protection</li> <li>Only use chemical-protective gloves with CE-labelling of category III.</li> <li>Selection of the glove material on consideration of the penetration times, rates of diffusion and t degradation</li> <li>Protective gloves</li> <li>Material of gloves</li> <li>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</li> <li>Penetration time of glove</li> <li>The exact break trough time has to be found out by the manufacturer of the protective gloves and has to observed.</li> </ul>		
<ul> <li>Material of gloves</li> <li>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</li> <li>Fluorocarbon rubber (Viton)</li> <li>Nitrile rubber, NBR</li> <li>Neoprene</li> <li>Penetration time of glove</li> <li>material</li> <li>The exact break trough time has to be found out by the manufacturer of the protective gloves and has to observed.</li> </ul>	· 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 t
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 observed.     Eye/face protection	· Material of 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
· Eye/face protection		glove The exact break trough time has to be found out by the manufacturer of the protective gloves and has to
I ightly sealed goggles	· Eye/face protection	
		Tightly sealed goggles

Printing date 03.04.2024

Version: 9 (replaces version 8)

**PERGAN** The Peroxide Company

Revision: 05.07.2023

(Contd. of page 4)

# Trade name: PEROXAN EPC-50 WN-A IBC

· Body protection:



Protective work clothing

## 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	Nat datawa wad
· Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not determined.
Decomposition temperature:	0 °C (SADT)
·рН	Not determined.
· Viscosity:	
Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
Solubility	
· water:	Undetermined.
<ul> <li>Partition coefficient n-octanol/water (log value)</li> </ul>	not determined
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
Vapour density	
· 9.2 Other information	No further relevant information available.
· Appearance:	
· Form:	emulsion
<ul> <li>Important information on protection of health and environment</li> </ul>	ent.
and on safety.	
and on safety. Ignition temperature:	Product is not selfigniting.
and on safety.	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour
and on safety. Ignition temperature: Explosive properties:	Product is not selfigniting.
and on safety. Ignition temperature: Explosive properties: Change in condition	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined.
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void Void Void Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void Void Void Void Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void Void Void Void Void Void Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void Void Void Void Void Void Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void Void Void Void Void Void Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void Void Void Void Void Void Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void Void Void Void Void Void Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void Void Void Void Void Void Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures Substances and mixtures	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void Void Void Void Void Void Void
<ul> <li>and on safety.</li> <li>Ignition temperature:</li> <li>Explosive properties:</li> <li>Change in condition</li> <li>Evaporation rate</li> <li>Information with regard to physical hazard classes</li> <li>Explosives</li> <li>Flammable gases</li> <li>Aerosols</li> <li>Oxidising gases</li> <li>Gases under pressure</li> <li>Flammable liquids</li> <li>Flammable solids</li> <li>Self-reactive substances and mixtures</li> <li>Pyrophoric liquids</li> <li>Self-heating substances and mixtures</li> <li>Substances and mixtures</li> <li>Substances and mixtures</li> <li>Substances and mixtures</li> <li>Oxidising liquids</li> </ul>	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Void Void Void Void Void Void Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures Substa	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Oxidising liquids Oxidising solids Oxidising solids Oxidising solids Oxidising solids	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Heating may cause a fire.
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Oxidising liquids Oxidising solids Organic peroxides Corrosive to metals	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Oxidising liquids Oxidising solids Organic peroxides Corrosive to metals Desensitised explosives	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void Heating may cause a fire.
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Oxidising liquids Oxidising solids Oxidising solids Oxidising solids Organic peroxides Corrosive to metals Desensitised explosives Other safety characteristics	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Oxidising liquids Oxidising solids Organic peroxides Corrosive to metals Desensitised explosives	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Oxidising liquids Oxidising solids Oxidising solids Oxidising solids Organic peroxides Corrosive to metals Desensitised explosives Other safety characteristics	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Not determined. Void

Printing date 03.04.2024

Version: 9 (replaces version 8)

Revision: 05.07.2023

(Contd. of page 5)

The Peroxide Company

## Trade name: PEROXAN EPC-50 WN-A IBC

**SECTION 10: Stability and reactivity**  10.1 Reactivity No further relevant information available. · 10.2 Chemical stability Thermal decomposition / 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 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 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 Hydrocarbons, carbondioxide and -monoxid. products: 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.

Acute	Acute toxicity Dased on available data, the classification chemical are not met.		
· LD/LC50 values relevant for classification:			
16111-6	16111-62-9 bis(2-ethylhexyl) peroxydicarbonate		
Oral	ral LD50 >2.000 mg/kg (rattus)		
Dermal	al LD50 >2.000 mg/kg (rattus)		
67-56-1	methanol		
Oral	LD50 1.187 mg/kg (rattu	s)	
· Skin c	orrosion/irritation	Causes skin irritation.	
	· Serious eye damage/irritation Causes serious eye damage.		
•	ratory or skin		
	sensitisation May cause an allergic skin reaction.		
• Germ cell mutagenicity Based on available data, the classification criteria are not met.		Based on available data, the classification criteria are not met.	
· Carcin	ogenicity	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	Causes damage to the central nervous system and the visual organs.	
· STOT-	repeated exposure	Based on available data, the classification criteria are not met.	
• Aspiration hazard Based on available data, the classification criteria are not met.		Based on available data, the classification criteria are not met.	
11.2 Information on other hazards			
· Endoc	· Endocrine disrupting properties		
None of the ingredients is listed.			

## **SECTION 12: Ecological information**

· 12.1 Toxicity	
· Aquatic toxicity:	
67-56-1 methanol	
EC50 / 72h 22.000 mg/l (algae)	
• 12.2 Persistence and degradability • Degree of elimination:	
· Classification:	
16111-62-9 bis(2-ethylhexyl) peroxydicarbonate	
Degradation (Readily biodegradable) (OECD 301 B)	
67-56-1 methanol	
Degradation (Readily biodegradable)	
	(Contd. on page 7)
	MT

Printing date 03.04.2024

Version: 9 (replaces version 8)

Revision: 05.07.2023

The Peroxide Company

# Trade name: PEROXAN EPC-50 WN-A IBC

· 12.3 Bioaccumulative potentia	al	(Contd. of page 6
· Partition coefficient: nOctan		
16111-62-9 bis(2-ethylhexyl) pe	eroxydicarbonate	2,73
67-56-1 methanol		-0,77 (20°C)
79-20-9 methyl acetate		0,18 (20°C)
Bioconcentration factor (BCF	F)	'
67-56-1 methanol		
BCF <10		
· 12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and vPvB	3 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 No further relevant information available.		
• Remark: Toxic for fish		
· Additional ecological information	ation:	
· General notes:	Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms 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.	

SECTION 13: Disposal cons	iderations
<ul> <li>13.1 Waste treatment methods</li> <li>Recommendation</li> </ul>	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
· Waste disposal key:	system. Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)- number.
<ul> <li>Uncleaned packaging:</li> <li>Recommendation:</li> </ul>	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	UN3119
<ul> <li>14.2 UN proper shipping name</li> <li>ADR</li> <li>IMDG</li> </ul>	UN3119 ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED (DI-(2-ETHYLHEXYL)-PEROXYDICARBONATE) ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED (DI-(2-ETHYLHEXYL)-PEROXYDICARBONATE)
· 14.3 Transport hazard class(es)	
ADR	
· Class · Label	5.2 (P2) Organic peroxides. 5.2
·IMDG	
<b>.</b>	
Class	5.2 Organic peroxides.
·Label	5.2
· IATA · Class	X
	(Contd. on page 8

Printing date 03.04.2024

Version: 9 (replaces version 8)

The Peroxide Company

#### Revision: 05.07.2023

## Trade name: PEROXAN EPC-50 WN-A IBC

	(Contd. of page 3
· Label	Х
· 14.4 Packing group	
· ADR, IMDG	Void
14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Organic peroxides.
Hazard identification number (Kemler code):	• • • • •
· Stowage Category	D
· Stowage Code	SW1 Protected from sources of heat.
	SW3 Shall be transported under temperature control.
· Segregation Code	SG35 Stow "separated from" SGG1-acids
	SG36 Stow "separated from" SGG18-alkalis.
$\cdot$ 14.7 Maritime transport in bulk according to IMO inst	ruments Not applicable.
· Transport/Additional information:	
ADR	
<ul> <li>Limited quantities (LQ)</li> </ul>	0
<ul> <li>Excepted quantities (EQ)</li> </ul>	Code: E0
	Not permitted as Excepted Quantity
<ul> <li>Transport category</li> </ul>	1
<ul> <li>Tunnel restriction code</li> </ul>	D
· RID / GGVSEB:	no admission
·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**

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

Directive 2012/18/EU	
<ul> <li>Named dangerous substances</li> </ul>	
- ANNEX I	None of the ingredients is listed.
<ul> <li>Seveso category</li> </ul>	H3 STOT SPĚCIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE
	P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
<ul> <li>Qualifying quantity (tonnes) for</li> </ul>	
the application of lower-tier	
requirements	50 t
Qualifying quantity (tonnes) for	
the application of upper-tier	
requirements	200 t
· REGULATION (EC) No	
1907/2006 ANNEX XVII	Conditions of restriction: 3, 69
· DIRECTIVE 2011/65/EU on the re	estriction of the use of certain hazardous substances in electrical and electronic equipment – Annex
П	
None of the ingredients is listed.	
· REGULATION (EU) 2019/1148	
Annex I - RESTRICTED EXPLOS	SIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.	
· Annex II - REPORTABLE EXPLO	DSIVES PRECURSORS
None of the ingredients is listed.	
· Regulation (EC) No 273/2004 or	ו drug precursors
None of the ingredients is listed.	
<b>č</b>	(Contd. on page 9)

Printing date 03.04.2024

Version: 9 (replaces version 8)

**PERGAN** The Peroxide Company

Revision: 05.07.2023

# Trade name: PEROXAN EPC-50 WN-A IBC

## (Contd. of page 8) • Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

## **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.

<ul> <li>Department issuing SDS:</li> <li>Contact:</li> <li>Version number of previous version:</li> <li>Abbreviations and acronyms:</li> </ul>	Environment protection / Security of labour Tel: +49 2871 9902-0 E-mail: mail@pergan.com 8 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDC: International Maritme Code for Dangerous Goods IATA: International Maritme Code for Dangerous Goods IATA: International Maritme Code for Classification and Labelling of Chemicals EINEGS: European Inventory of Existing Commercial Chemical Substances ELINGS: 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, 50 percent LDS0: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic veryB: very Persistent, Bioaccumulative and Toxic
• * Data compared to the previous version altered.	