

Version: 8 (replaces version 7)

The Peroxide Company

Revision: 16.02.2023

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

· 1.1 Product identifier

	tion initiator ndustrial use
Hilfs Schl D-46 Tel:	/ data sheet GAN GmbH stoffe für industrielle Prozesse avenhorst 71 395 Bocholt +49 2871 9902-0 +49 2871 9902-50
Qual	onment protection / Security of labour fied person: E-mail: msds@pergan.com +49 2871 9902-0

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture \cdot Classification according to Regulation (EC) No 1272/2008

Org. Perox. E H242 Heating may cause a fire. Skin Irrit. 2 H315 Causes skin irritation.

· 2.2 Label elements · Labelling according to · Hazard pictograms

Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

GHS02 GHS07	

· Signal word	Warning	
 Hazard-determining components of labelling: Hazard statements 	H242 Heat	yl-2,5-di-(tertbutylperoxy)-hexane ing may cause a fire. ses skin irritation.
· 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.
		Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. 8 In case of fire: Use CO2, powder or water spray to extinguish.
	P410	Protect from sunlight.
		5 Store at temperatures not exceeding +40°C. Keep cool.
	P420 P501	Store separately. Dispose of contents/container in accordance with local/regional/national/international
	P301	regulations.
· 2.3 Other hazards		-
 Results of PBT and vPvB asses 	ssment	
· PBT:	The substa	nces in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
· vPvB:	The substa	nces in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
 Determination of endocrine- 		
disrupting properties	The produc	t does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Dangerous components:		
CAS: 78-63-7 EINECS: 201-128-1 Reg-No.: 01-2119875400-42	Org. Perox. C, H242; Skin Irrit. 2, H315	70-80%
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- (Contd. of page 1) · 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 Take care of personal protection for the first aider.
- · After inhalation: 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: Rinse opened eye for several minutes under running water. After swallowing: If symptoms persist consult doctor. 4.2 Most important symptoms and effects, both acute and No further relevant information available. delayed 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available. **SECTION 5: Firefighting measures** · 5.1 Extinguishing media
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from

the substance or mixture

Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid.

 5.3 Advice for firefighters · Protective equipment: Additional information

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	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:	Do not allow to enter sewers/ surface or ground water.
 6.3 Methods and material for 	
containment and cleaning up:	Ensure adequate ventilation.
0.1	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.
C C	Open and handle receptacle with care.
	Prevent formation of aerosols.
	Wear suitable respiratory protective device when decanting larger guantities without extractor facilities.
	Do not refill residue into storage receptacles.
	Restrict the guantity 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).
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0,00065 mg/l (AF 10)

72,2 mg/kg sed dw (-)

14,4 mg/kg soil dw (-)

0,000065 mg/l (AF 100)

The lists valid during the making were used as basis.

No further data; see section 7.

100 mg/l (AF 10)

PNEC Freshwater

PNEC Marinewater

Additional information:

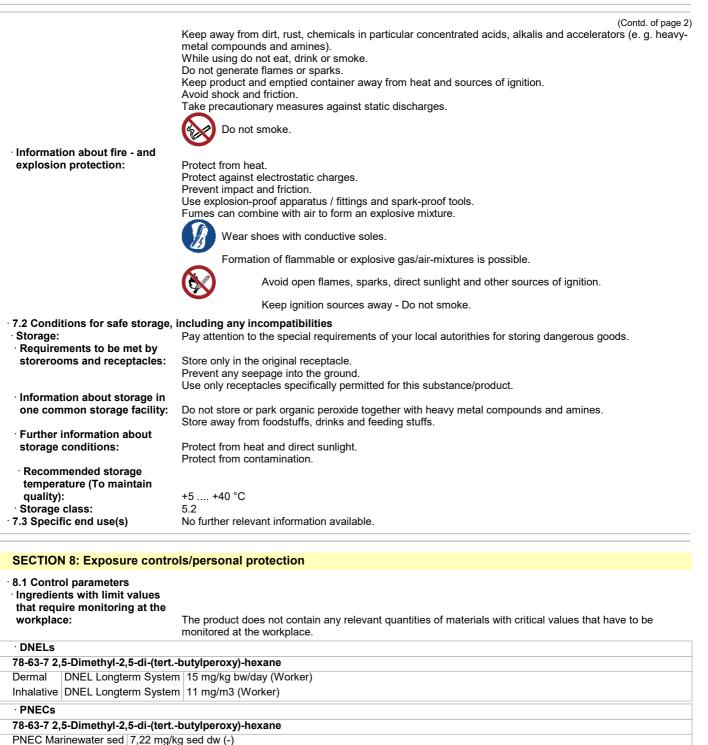
8.2 Exposure controls Appropriate engineering

PNEC Soil

PNEC STP

controls

PNEC Freshwater sed





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	es, such as personal protective equipment
General protective and	
hygienic measures:	The usual precautionary measures are to be adhered to when handling chemicals.
	Keep away from foodstuffs, beverages and feed.
	Immediately remove all soiled and contaminated clothing
	Wash hands before breaks and at the end of work.
	Store protective clothing separately.
	Avoid close or long term contact with the skin.
	Avoid contact with the eyes and skin.
	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:	Not_necessary if room is well-ventilated.
	Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.
	Filter A2
Hand protection	Only use chemical-protective gloves with CE-labelling of category III.
	Selection of the glove material on consideration of the penetration times, rates of diffusion and the
	(V) 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, BR
	Fluorocarbon rubber (Viton) Nitrile rubber, NBR
	Neoprene
Bonstration time of glove	Neoprene
 Penetration time of glove material 	The event break trough time has to be found out by the manufacturer of the protective slaves and has to be
IIIdleIIdl	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye/face protection	
	Tightly sealed goggles
Body protection:	

Body protection:



Protective work clothing

SECTION 9: Physical and chemical properties

Not determined.	
Not applicable.	
Not applicable.	
Not applicable.	
Not determined.	
Not determined.	
Not determined.	
> +60 °C (SADT)	
Not determined.	
Not determined.	
Not determined.	
Undetermined.	
not determined	
Not determined	
Not determined	
Not determined.	
	Not applicable. Not applicable. Not determined. Not determined. > +60 °C (SADT) Not determined. Not determined. Undetermined. Undetermined. Not determined. Not determined. Not determined. Not determined. Not determined.



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9.2 Other information	
· Appearance:	
Form:	thick paste
· Important information on protection of health and environment,	•
and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour
	mixtures are possible.
· Change in condition	
· Evaporation rate	Not determined.
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
Flammable liquids	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

SECTION 10: Stability and reactivity

•	-
 10.1 Reactivity 10.2 Chemical stability Thermal decomposition / 	No further relevant information available.
conditions to be avoided:	SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating decomposition may occur with substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be cause decomposition at and above the temperature. Contact with incompatible substances can cause decomposition at or below the SADT. No decomposition if used and stored according to specifications. 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 Inf Acute			ses as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.	
· LD/LC	50 val	ues relevant for cla	assification:	
78-63-7	2,5-Di	methyl-2,5-di-(tert.	-butylperoxy)-hexane	
Oral	LD50	>2.000 mg/kg (ratti	us)	
Dermal	LD50	>2.000 mg/kg (rabl	pit)	
· Skin c	orrosio	on/irritation	Causes skin irritation.	
[.] Seriou [.] Respir		damage/irritation or skin	Based on available data, the classification criteria are not met.	
sensiti	isation		Based on available data, the classification criteria are not met.	(Contd. on page 6)

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	Description construction data data data di construction contracto con contracto	(Contd. of page
· Germ cell mutagenicity · Carcinogenicity	Based on available data, the classification criteria are not met. 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.	
· 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.	
11.2 Information on other haz		
· Endocrine disrupting proper		
None of the ingredients is listed	l	
SECTION 12: Ecological in	nformation	
12.1 Toxicity		
 Aquatic toxicity: 12.2 Persistence and degrada 	No further relevant information available.	
· Degree of elimination:	wiity	
· Classification:		
78-63-7 2,5-Dimethyl-2,5-di-(te	ert -hutvlneroxy)-hexane	
Degradation (Not readily biode		
12.3 Bioaccumulative potenti		
· Partition coefficient: nOctar		
78-63-7 2,5-Dimethyl-2,5-di-(t		7,34 (20°C
75-65-0 2-methylpropan-2-ol	enbutyperoxy/-nexare	0,32 (20°C
110-05-4 di-tert-butyl peroxide		
		3,2 (22°C)
· Bioconcentration factor (BCI	•	
78-63-7 2,5-Dimethyl-2,5-di-(te	ertbutylperoxy)-hexane	
BCF 521-839		
12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and vPvE		
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to REAC	H, annex XIII.
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to REAC	H, annex XIII.
12.6 Endocrine disrupting	The product does not contain substances with and saving disrupting properties	
nronortion	The product does not contain substances with endocrine disrupting properties.	
properties 12.7 Other adverse effects		
12.7 Other adverse effects	ation	
12.7 Other adverse effects Additional ecological inform		water
properties 12.7 Other adverse effects · Additional ecological inform · General notes:	ation: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for Do not allow undiluted product or large quantities of it to reach ground water, water or	

SECTION 13: Disposal cons	iderations
• 13.1 Waste treatment methods • Recommendation	After diluting with a suitable desentisation agent to 10 %, the solution must be supplied to a specia 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.
· Uncleaned packaging: · Recommendation:	This material and its container must be disposed of as hazardous waste.
SECTION 14: Transport info	rmation
· 14.1 UN number or ID number	LIN3108

· ADR, IMDG, IATA	UN3108
 14.2 UN proper shipping name 	
ADR	UN3108 ORGANIC PEROXIDE TYPE E, SOLID (2,5-DIMETHYL-2,5-DI- (tertBUTYLPEROXY)-HEXANE)
· IMDG, IATA	ÒRGANIC PEROXIDÉ TYPE E, SOLID (2,5-DIMETHYL-2,5-DI-(tert BUTYLPEROXY)-HEXANE)

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· 14.3 Transport hazard class(es)	
ADR	
32	
· Class	5.2 (P1) Organic peroxides.
· Label	5.2 (17) Organic peroxides. 5.2
—	
· Class · Label	5.2 Organic peroxides. 5.2
	5.2
 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 Divid Durback of form a summer of head
· Stowage Code · Segregation Code	SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids
Segregation code	SG36 Stow separated from SGG1-acids
14.7 Maritime transport in bulk according to IMO instrument	ts Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	500 g
Excepted quantities (EQ)	Code: E0
· Transport category	Not permitted as Excepted Quantity 2
• Tunnel restriction code	Z D
· RID / GGVSEB:	like ADR
	ועה סאוו
· IMDG · Limited quantities (LQ)	500 g
Excepted quantities (EQ)	Code: E0
(,	Not permitted as Excepted Quantity
· Additional provisions for organic peroxides of Class 5.2	"Carriage in accordance with ADR 2.2.52.1.8."

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 	None of the ingredients is listed.
Seveso category	P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
 Qualifying quantity (tonnes) for 	
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
DIRECTIVE 2011/65/EU on the re	estriction of the use of certain hazardous substances in electrical and electronic equipment – Annex
Ш	
None of the ingredients is listed.	
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REGULATION (EU) 2019/1148	(Contd. of pag
	OSIVES 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 o	n drug precursors
None of the ingredients is listed.	
Regulation (EC) No 111/2005 la precursors	aying down rules for the monitoring of trade between the Community and third countries in drug
None of the ingredients is listed.	
SECTION 16: Other informat	ion present knowledge. However, this shall not constitute a guarantee for any specific product features and sha
not establish a legally valid contra	
Department issuing SDS: Contact:	Environment protection / Security of labour Tel: +49 2871 9902-0
Version number of previous	E-mail: mail@pergan.com
version:	7
• Abbreviations and acronyms:	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
	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 ELINCS: European List of Notified Chemical Substances
	CAS: Chemical Abstracts Service (division of the American Chemical Society)
	DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH)
	LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent
	PBT: Persistent, Bioaccumulative and Toxic
	vPvB: very Persistent and very Bioaccumulative Org. Perox. C: Organic peroxides – Type C/D
	Org. Perox. E: Organic peroxides – Type E/F

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