

Printing date 04.04.2024

Version: 9 (replaces version 8)

Revision: 25.10.2023

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

· 1.1 Product identifier

DEBUTYN NDO-50

· Trade name:	PERUXAN NPU-50		
1.2 Relevant identified uses of the substance or mixture and uses advised against			
	No further relevant information available.		
Application of the substance /			
the mixture	Reaction initiator		
	For industrial use		
• 1.3 Details of the supplier of the safety data sheet			
Manufacturer/Supplier:	PERGAN GmbH		
	Hilfsstoffe für industrielle Prozesse		
	Schlavenhorst 71		
	D-46395 Bocholt		
	Tel: +49 2871 9902-0		
	Fax: +49 2871 9902-50		
· Further information obtainable			
from:	Environment protection / Security of labour		
	Qualified person: E-mail: msds@pergan.com		
1.4 Emergency telephone			
number:	- Tel: +49 2871 9902-0		
SECTION 2: Hazards identification			

V 2: Hazards identification

SECTION 2: Hazards identifi	ication
Org. Perox. FH242 HeatingSkin Irrit. 2H315 CausesSkin Sens. 1H317 May causes	
2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms	The product is classified and labelled according to the CLP regulation.
· Signal word	Warning
 Hazard-determining components of labelling: Hazard statements 	Di-(3,5,5-trimethylhexanoyl)-peroxide H226 Flammable liquid and vapour. H242 Heating may cause a fire. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H413 May cause long lasting harmful effects to aquatic life.
 Precautionary statements 	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P234 Keep only in original packaging. P243 Take action to prevent static discharges. P264 Wash thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P403+P235 Store in a well-ventilated place. Keep cool. P410 Protect from sunlight. P411+P235 Store at temperatures not exceeding 0°C. Keep cool. P420 Store separately. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
· 2.3 Other hazards	ů – Elektrik Alektrik – Elektrik –
 Results of PBT and vPvB asse 	
· 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.
Determination of endocrine-	
ممالية سيسم سمية مستقسين سماله	The unadjust data and explain substances with and exist disputing properties

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

Dangerous components:		
CAS: 3851-87-4 EINECS: 223-356-0 Reg-No.: 01-2119966134-37	Di-(3,5,5-trimethylhexanoyl)-peroxide Org. Perox. D, H242; Skin Irrit. 2, H315; Skin Sens. 1B, H317	50-60%
CAS: 93685-81-5 EINECS: 297-629-8	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated Alternative CAS number: 13475-82-6	40-50%
Reg-No.: 01-2119490725-29 • Additional information:	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413For 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: 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: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. After swallowing: If symptoms persist consult doctor. · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available. 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 	
	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: 	Do not inhale explosion gases or combustion gases.
 Additional information 	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.
•	After exceeding the emergency temperature must be diluted with a suitable desentisation agent to < 10 %.
	In case of further temperature should be cooled with waterspray from a safe distance.
	Take precautionary measures against static discharges.
	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.
containinent und cleaning up.	
	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	In case of large spillage the environmental authority should be informed

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SECTION 7: Handling and storage

7.1 Precautions for safe	
handling	Keep receptacles tightly sealed.
	Keep away from heat and direct sunlight.
	Open and handle receptacle with care.
	Prevent formation of aerosols.
	Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
	Do not refill residue into storage receptacles. Restrict the quantity stored at the work place.
	Before break and at the end of work hands should be thoroughly washed.
	Only use tools made of suitable materials (e. g. polyethylene or stainless steel).
	The product must be preserved, stored and transported continously cool.
	Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. hea
	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.
	The precedutionary measures against static discharges.
	Bo not smoke.
Information about fire - and	
explosion protection:	Protect from heat.
	Protect against electrostatic charges. Prevent impact and friction.
	Use explosion-proof apparatus / fittings and spark-proof tools.
	Fumes can combine with air to form an explosive mixture.
	Wear shoes with conductive soles.
	Formation of flammable or explosive gas/air-mixtures is possible.
	Avoid open flames, sparks, direct sunlight and other sources of ignition.
	Keep ignition sources away - Do not smoke.
7.2 Conditions for safe storage,	, including any incompatibilities
Storage:	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.
Information about storage in	
one common storage facility:	Do not store or park organic peroxide together with heavy metal compounds and amines.
Eurthor information about	Store away from foodstuffs, drinks and feeding stuffs.
 Further information about storage conditions: 	Keep container tightly sealed.
storage contaitions.	Protect from heat and direct sunlight.
	Protect from contamination.
· Recommended storage	
temperature (To maintain	
quality):	-8 5°C
· Control temperature:	+10°C
 Emergency temperature: 	+15°C
· Storage class:	5.2
7.3 Specific end use(s)	No further relevant information available.
	ole/noreonal protoction
-	ols/personal protection
8.1 Control parameters	ols/personal protection
8.1 Control parameters Ingredients with limit values	ols/personal protection
SECTION 8: Exposure contr 8.1 Control parameters Ingredients with limit values that require monitoring at the workplace:	The product does not contain any relevant quantities of materials with critical values that have to be

·DNELs

3851-87-4	4 Di-(3,5,5-trimethylhexanoyl)-peroxide
Dermal	DNEL Longterm System 0,67 mg/kg bw/day (Worker)

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Inhalative DNEL Longte	erm System 1,18 mg/m3 (Worker) (Contd. of page	
·PNECs		
	nethylhexanoyl)-peroxide	
	0,048 mg/kg sed dw (-)	
PNEC Freshwater	0,073 mg/l (AF 100)	
PNEC Freshwater sed		
PNEC Soil	0,054 mg/kg soil dw (-)	
PNEC STP	75 mg/l (AF 10)	
PNEC Marinewater	0,0073 mg/l (AF 1.000)	
· Additional informatio	n: The lists valid during the making were used as basis.	
8.2 Exposure controls Appropriate engineeric controls Individual protection General protective ar	ing No further data; see section 7. measures, such as personal protective equipment	
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 protectio		
· 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 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		
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	Tightly sealed goggles	

9.1 Information on basic physical and chemical properties		
General Information		
· Colour:	Colourless	
· Odour:	Characteristic	
· Melting point/freezing point:	Undetermined.	
Boiling point or initial boiling point and boiling range	Undetermined.	
· Flash point:	53 °C	
Decomposition temperature:	25 °C (SADT)	
Viscosity:	· · ·	
Dynamic at 20 °C:	77 mPas	
Solubility		
· water:	Not miscible or difficult to mix.	
 Partition coefficient n-octanol/water (log value) 	not determined	

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	(Contd. of pag
· Density and/or relative density	
· Density at 20 °C:	0,825 g/cm ³
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health and environme and on safety.	ent,
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
Flammable liquids	Flammable liquid and vapour.
Flammable solids	Void
 Self-reactive substances and mixtures 	Void
· Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in	
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 Information on hazard clas Acute toxicity 		tion on hazard classes as defined in Regulation (EC) No 1272/2008 ty Based on available data, the classification criteria are not met.			
· LD/LC50 values relevant for classification:					
3851-87-4 Di-(3,5,5-trimethylhexanoyl)-peroxide					
Oral	LD50	>5.000 mg/kg (rattus)			
Dermal	LD50	>2.000 mg/kg (rattus)			
93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated					
Oral	LD50	>5.000 mg/kg (rattus)			
Skin corrosion/irritation Causes skin irritation.					
			(ontd on nade 6)		



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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31 Version: 9 (replaces version 8)



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Serious eye damage/irritation	Low irritant effect		
· Respiratory or skin	Maria and a glassic aliance diag		
sensitisation · Germ cell mutagenicity	May cause an allergic skin reaction.		
· 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 haza			
· Endocrine disrupting properti	es		
None of the ingredients is listed.			
SECTION 12: Ecological inf	ormation		
10.4 Taviaita			
12.1 TOXICITY			
· Aquatic toxicity:			
Aquatic toxicity:	1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated		
Aquatic toxicity:			
• Aquatic toxicity: 93685-81-5 Hydrocarbons, C4,			
• Aquatic toxicity: 93685-81-5 Hydrocarbons, C4, EC50 / 48h >0,04 mg/l (daphnia IC50 / 72h >0,04 mg/l (algae)			
• Aquatic toxicity: 93685-81-5 Hydrocarbons, C4, EC50 / 48h >0,04 mg/l (daphnia IC50 / 72h >0,04 mg/l (algae)			
Aquatic toxicity:93685-81-5 Hydrocarbons, C4,EC50 / 48h>0,04 mg/l (daphniaIC50 / 72h>0,04 mg/l (algae)12.2 Persistence and degradab			
Aquatic toxicity:93685-81-5 Hydrocarbons, C4,EC50 / 48h>0,04 mg/l (daphniaIC50 / 72h>0,04 mg/l (algae)12.2 Persistence and degradabeDegree of elimination:Classification:) ility		
Aquatic toxicity:93685-81-5 Hydrocarbons, C4,EC50 / 48h>0,04 mg/l (daphniaIC50 / 72h>0,04 mg/l (algae)• 12.2 Persistence and degradab• Degree of elimination:• Classification:	ility 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated		
Aquatic toxicity: 93685-81-5 Hydrocarbons, C4, EC50 / 48h >0,04 mg/l (daphnia IC50 / 72h >0,04 mg/l (algae) 12.2 Persistence and degradab Degree of elimination: Classification: 93685-81-5 Hydrocarbons, C4, Degradation (Not readily biodeg	ility 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated		
Aquatic toxicity: 93685-81-5 Hydrocarbons, C4, EC50 / 48h >0,04 mg/l (daphnia IC50 / 72h >0,04 mg/l (daphnia IC50 / 72h >0,04 mg/l (algae) 12.2 Persistence and degradab Degree of elimination: Classification: 93685-81-5 Hydrocarbons, C4, Degradation (Not readily biodeg 12.4 Mobility in soil	ility 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated radable) No further relevant information available.		
Aquatic toxicity: 93685-81-5 Hydrocarbons, C4, EC50 / 48h >0,04 mg/l (daphnia IC50 / 72h >0,04 mg/l (daphnia IC50 / 72h >0,04 mg/l (algae) 12.2 Persistence and degradab Degree of elimination: Classification: 93685-81-5 Hydrocarbons, C4, Degradation (Not readily biodeg 12.4 Mobility in soil	ility 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated radable) No further relevant information available.		
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Aquatic toxicity: 93685-81-5 Hydrocarbons, C4, EC50 / 48h >0,04 mg/l (daphnia IC50 / 72h >0,04 mg/l (daphnia IC50 / 72h >0,04 mg/l (algae) 12.2 Persistence and degradab Degree of elimination: Classification: 93685-81-5 Hydrocarbons, C4, Degradation (Not readily biodeg 12.4 Mobility in soil 12.5 Results of PBT and vPvB PBT: vPvB: 12.6 Endocrine disrupting	ility 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated radable) No further relevant information available. assessment 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.		
 Aquatic toxicity: 93685-81-5 Hydrocarbons, C4, EC50 / 48h >0,04 mg/l (daphnia IC50 / 72h >0,04 mg/l (algae) 12.2 Persistence and degradab Degree of elimination: Classification: 93685-81-5 Hydrocarbons, C4, Degradation (Not readily biodeg 12.5 Results of PBT and vPvB PBT: vPvB: 12.6 Endocrine disrupting properties 	ility 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated radable) No further relevant information available. assessment The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.		
Aquatic toxicity: 93685-81-5 Hydrocarbons, C4, EC50 / 48h >0,04 mg/l (daphnia IC50 / 72h >0,04 mg/l (daphnia IC50 / 72h >0,04 mg/l (algae) 12.2 Persistence and degradab Degree of elimination: Classification: 93685-81-5 Hydrocarbons, C4, Degradation (Not readily biodeg 12.4 Mobility in soil 12.5 Results of PBT and vPvB · PBT: vPvB: 12.6 Endocrine disrupting properties 12.7 Other adverse effects	1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated radable) No further relevant information available. assessment 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. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The product does not contain substances with endocrine disrupting properties.		
Aquatic toxicity: 93685-81-5 Hydrocarbons, C4, EC50 / 48h >0,04 mg/l (daphnia IC50 / 72h >0,04 mg/l (daphnia IC50 / 72h >0,04 mg/l (algae) 12.2 Persistence and degradab Degree of elimination: Classification: 93685-81-5 Hydrocarbons, C4, Degradation (Not readily biodeg 12.4 Mobility in soil 12.5 Results of PBT and vPvB PBT: vPvB: 12.6 Endocrine disrupting properties 12.7 Other adverse effects Additional ecological informate	1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated radable) No further relevant information available. assessment 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. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The product does not contain substances with endocrine disrupting properties. tion:		
93685-81-5 Hydrocarbons, C4, EC50 / 48h >0,04 mg/l (daphnia IC50 / 72h >0,04 mg/l (algae) • 12.2 Persistence and degradabe • Degree of elimination: • Classification: 93685-81-5 Hydrocarbons, C4, Degradation (Not readily biodeg) • 12.4 Mobility in soil • 12.5 Results of PBT and vPvB • PBT: • vPvB: • 12.6 Endocrine disrupting properties • 12.7 Other adverse effects	1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated radable) No further relevant information available. assessment 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. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The product does not contain substances with endocrine disrupting properties.		

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 special treatment (e. g. thermal utilization) under observance of all official regulations.
	Must not be disposed together with household garbage. Do not allow product to reach sewage system.
· Waste disposal key:	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 information	
· 14.1 UN number or ID number · ADR, IMDG	UN3119
 14.2 UN proper shipping name ADR IMDG 	UN3119 ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED (DI-(3,5,5-TRIMETHYLHEXANOYL) PEROXIDE) ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED
	(DI-(3,5,5-TRIMETHYLHEXANOYL) PEROXIDE) (Contd. on page 7



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· 14.3 Transport hazard class(es)	
ADR	
· Class	5.2 (P2) Organic peroxides.
· Label	5.2
·IMDG	
Class	5.2 Organic peroxides.
Label	5.2
·IATA	
· Class · Label	X X
	Α
 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.
· Segregation Code	SW3 Shall be transported under temperature control. SG35 Stow "separated from" SGG1-acids
	SG36 Stow "separated from" SGG18-alkalis.
\cdot 14.7 Maritime transport in bulk according to IMO ins	truments Not applicable.
· Transport/Additional information:	
ADR	
 Limited quantities (LQ) Excepted quantities (EQ) 	0 Code: E0
	Not permitted as Excepted Quantity
 Transport category Tunnel restriction code 	1 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:	+10°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
 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

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(Contd. of page 7) · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3 · DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex ш None of the ingredients is listed. · REGULATION (EU) 2019/1148 Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)) None of the ingredients is listed. Annex II - REPORTABLE EXPLOSIVES PRECURSORS None of the ingredients is listed. · Regulation (EC) No 273/2004 on drug precursors None of the ingredients is listed. · 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.

· Relevant phrases	H226 Flammable liquid and vapour. H242 Heating may cause a fire. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H413 May cause long lasting harmful effects to aquatic life.
 Department issuing SDS: Contact: 	Environment protection / Security of labour Tel: +49 2871 9902-0 E-mail: mail@pergan.com
· Version number of previous	
version:	8
• 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) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDC: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods ELINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Concentration (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent DBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Org. Perox. D: Organic peroxides – Type C/D Org. Perox. D: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1 Auatic Chronic 4: Hazardous to the aduatic environment - long-term aquatic hazard – Category 4
* Data compared to the	Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4
 * Data compared to the previous version altered. 	