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IE

The Peroxide Company

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

· 1.1 Product identifier

PEROXAN HX-45 SP

· Trade name:	PEROXAN HX-45 SP
· 1.2 Relevant identified uses of the	he 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
CECTION 2: Use and identifi	a ati a n

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.

 The preductie dide
GHS02 GHS07

· Signal word	Varning
 Hazard-determining components of labelling: Hazard statements 	2,5-Dimethyl-2,5-di-(tertbutylperoxy)-hexane 1242 Heating may cause a fire. 1315 Causes skin irritation.
 Precautionary statements 	2210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	220 Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines).
	2234 Keep only in original packaging.
	264 Wash thoroughly after handling.
	2280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. 2370+P378 In case of fire: Use CO2, powder or water spray to extinguish.
	P410 Protect from sunlight.
	2411+P235 Store at temperatures not exceeding +40°C. Keep cool.
	2420 Store separately.
	2501 Dispose of contents/container in accordance with local/regional/national/international regulations.
· 2.3 Other hazards	-
 Results of PBT and vPvB asses 	nent
· 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.
 Determination of endocrine- disrupting properties 	he product 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	40-50%
	(Contd.	on page 2)

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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

 a.s 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.
	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.
-	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).
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	(Contd. of page 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.
	Do not smoke.
	Do not smoke.
 Information about fire - and explosion protection: 	Protect from heat.
explosion protection.	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.
7 0 0	Keep ignition sources away - Do not smoke.
 Storage: Requirements to be met by 	e, including any incompatibilities Pay attention to the special requirements of your local autorithies for storing dangerous goods.
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	
· Further information about	
storage conditions:	Protect from heat and direct sunlight. Protect from contamination.
Recommended storage	
temperature (To maintain quality):	+10 +40 °C
· Storage class:	5.2
7.3 Specific end use(s)	No further relevant information available.
SECTION 8: Exposure cont	rols/personal protection
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 monitored at the workplace.
Ingredients with limit values that require monitoring at the workplace: DNELs	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Ingredients with limit values that require monitoring at the workplace: DNELs 78-63-7 2,5-Dimethyl-2,5-di-(ter	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Ingredients with limit values that require monitoring at the workplace: DNELs 78-63-7 2,5-Dimethyl-2,5-di-(ter Dermal DNEL Longterm System	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. rtbutylperoxy)-hexane em 15 mg/kg bw/day (Worker)
Ingredients with limit values that require monitoring at the workplace: DNELs 78-63-7 2,5-Dimethyl-2,5-di-(ter Dermal DNEL Longterm System	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. rtbutylperoxy)-hexane em 15 mg/kg bw/day (Worker)
Ingredients with limit values that require monitoring at the workplace: DNELs 78-63-7 2,5-Dimethyl-2,5-di-(ter Dermal DNEL Longterm System Inhalative DNEL Longterm System PNECS 78-63-7 2,5-Dimethyl-2,5-di-(ter	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. rtbutylperoxy)-hexane em 15 mg/kg bw/day (Worker) em 11 mg/m3 (Worker) rtbutylperoxy)-hexane
Ingredients with limit values that require monitoring at the workplace: DNELs 78-63-7 2,5-Dimethyl-2,5-di-(ter Dermal DNEL Longterm System DNECs 78-63-7 2,5-Dimethyl-2,5-di-(ter PNEC Marinewater sed 7,22 mg	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. rtbutylperoxy)-hexane em 15 mg/kg bw/day (Worker) em 11 mg/m3 (Worker) rtbutylperoxy)-hexane g/kg sed dw (-)
Ingredients with limit values that require monitoring at the workplace: DNELs 78-63-7 2,5-Dimethyl-2,5-di-(ter Dermal DNEL Longterm Syste DNECs 78-63-7 2,5-Dimethyl-2,5-di-(ter PNEC Marinewater sed PNEC Freshwater 0,00065	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. rtbutylperoxy)-hexane em 15 mg/kg bw/day (Worker) em 11 mg/m3 (Worker) rtbutylperoxy)-hexane g/kg sed dw (-) 5 mg/l (AF 10)
Ingredients with limit values that require monitoring at the workplace: DNELs 78-63-7 2,5-Dimethyl-2,5-di-(ter Dermal DNEL Longterm Syste Inhalative DNEL Longterm Syste PNECs 78-63-7 2,5-Dimethyl-2,5-di-(ter PNEC Marinewater sed PNEC Freshwater 0,00065 PNEC Freshwater sed 72,2 mg	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. rtbutylperoxy)-hexane em 15 mg/kg bw/day (Worker) em 11 mg/m3 (Worker) rtbutylperoxy)-hexane g/kg sed dw (-) 5 mg/l (AF 10) g/kg sed dw (-)
Ingredients with limit values that require monitoring at the workplace: DNELs 78-63-7 2,5-Dimethyl-2,5-di-(ter Dermal DNEL Longterm Syste Inhalative DNEL Longterm Syste Inhalative DNEL Longterm Syste PNECs 78-63-7 2,5-Dimethyl-2,5-di-(ter PNEC Marinewater sed PNEC Freshwater PNEC Freshwater sed PNEC Soil 72,2 mg 14,4 mg	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. rtbutylperoxy)-hexane m 15 mg/kg bw/day (Worker) em 11 mg/m3 (Worker) rtbutylperoxy)-hexane g/kg sed dw (-) 5 mg/l (AF 10) g/kg sed dw (-) g/kg soil dw (-)
Ingredients with limit values that require monitoring at the workplace: DNELs 78-63-7 2,5-Dimethyl-2,5-di-(ter Dermal DNEL Longterm Syste Inhalative DNEL Longterm Syste Inhalative DNEL Longterm Syste PNECs 78-63-7 2,5-Dimethyl-2,5-di-(ter PNEC Marinewater sed PNEC Freshwater 0,00065 PNEC Freshwater sed PNEC Soil 72,2 mg PNEC STP 100 mg	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. rtbutylperoxy)-hexane em 15 mg/kg bw/day (Worker) 11 mg/m3 (Worker) rtbutylperoxy)-hexane g/kg sed dw (-) 5 mg/l (AF 10) g/kg sed dw (-) /l (AF 10)
Ingredients with limit values that require monitoring at the workplace: DNELs 78-63-7 2,5-Dimethyl-2,5-di-(ter Dermal DNEL Longterm System Inhalative DNEL Longterm System PNECs 78-63-7 2,5-Dimethyl-2,5-di-(ter PNECS 78-63-7 2,5-Dimethyl-2,5-di-(ter PNEC S 78-63-7 2,5-Dimethyl-2,5-di-(ter PNEC Freshwater 0,00065 PNEC Freshwater 0,00065 PNEC Soil 14,4 mg PNEC STP 100 mg PNEC Marinewater 0,000065	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. rtbutylperoxy)-hexane em 15 mg/kg bw/day (Worker) 11 mg/m3 (Worker) rtbutylperoxy)-hexane g/kg sed dw (-) 5 mg/l (AF 10) g/kg sed dw (-) 1/ (AF 10) 35 mg/l (AF 100)
that require monitoring at the workplace: • DNELs 78-63-7 2,5-Dimethyl-2,5-di-(ter Dermal DNEL Longterm System Inhalative DNEL Longterm System • PNECs 78-63-7 2,5-Dimethyl-2,5-di-(ter PNEC Marinewater sed 7,22 mg PNEC Freshwater 0,00065 PNEC Freshwater sed 72,2 mg PNEC Freshwater sed 72,2 mg PNEC Soil 14,4 mg PNEC STP 100 mg	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. rtbutylperoxy)-hexane em 15 mg/kg bw/day (Worker) 11 mg/m3 (Worker) rtbutylperoxy)-hexane g/kg sed dw (-) 5 mg/l (AF 10) g/kg sed dw (-) /l (AF 10)

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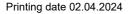
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	(Contd. of page 3
ndividual protection measu General protective and	res, such as personal protective equipment
hygienic measures:	The usual precautionary measures are to be adhered to when handling chemicals.
nygionie nieuouroor	Keep away from foodstuffs, 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
	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
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 be
	observed.
Eye/face protection	
	Tightly sealed goggles
Body protection:	
	Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties		
· General Information		
· Colour:	Yellowish	
· 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		
· Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	Not determined.	
Decomposition temperature:	+80 °C (SADT)	
· pH	Not determined.	
· Viscosity:		
Kinematic viscosity	Not determined.	
· Dynamic:	Not determined.	
Solubility		
· water:	Undetermined.	
· Partition coefficient n-octanol/water (log value)	not determined	
· Vapour pressure:	Not determined.	
· Density and/or relative density		
· Density:	Not determined.	
· Relative density	Not determined.	
· Vapour density	Not determined.	
	Not dotominod.	
		(Contd. on page 5)
		——————————————————————————————————————



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9.2 Other information	
Appearance:	
Form:	Pasty
Important information on protection of health and environment,	
and on safety.	
· Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
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 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 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

	formatic toxicity		ses as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.	
· LD/LC	C50 valu	es relevant for cla	assification:	
78-63-7	2,5-Din	nethyl-2,5-di-(tert.	-butylperoxy)-hexane	
Oral	LD50 3	>2.000 mg/kg (ratti	us)	
Dermal	LD50 3	>2.000 mg/kg (rabl	pit)	
· Skin c	orrosio	n/irritation	Causes skin irritation.	
		amage/irritation	Based on available data, the classification criteria are not met.	
· Respir		r skin		
	isation		Based on available data, the classification criteria are not met.	
Germ	cell mut	tagenicity	Based on available data, the classification criteria are not met.	(Contd. on page 6)



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Carcinogenicity	Based on available data, the classification criteria are not met.	
Reproductive toxicity	Based on available data, the classification criteria are not met.	
STOT-single exposure	Based on available data, the classification criteria are not met.	
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 hazards		
Endocrine disrupting proper		
None of the ingredients is listed	1.	
SECTION 12: Ecological ir	nformation	
2.1 Toxicity		
Aquatic toxicity:	No further relevant information available.	
2.2 Persistence and degrada Degree of elimination:	ability	
Classification:		
78-63-7 2,5-Dimethyl-2,5-di-(te		
Degradation (Not readily biode		
2.3 Bioaccumulative potentia	al	
Partition coefficient: nOctar	nol/water: [Log Kow]	
78-63-7 2,5-Dimethyl-2,5-di-(t	tertbutylperoxy)-hexane	7,34 (20°C
75-65-0 2-methylpropan-2-ol		0,32 (20°C
10-05-4 di-tert-butyl peroxide		3,2 (22°C)
Bioconcentration factor (BCI	F)	
78-63-7 2,5-Dimethyl-2,5-di-(te	ertbutylperoxy)-hexane	
3CF 521-839		
2.4 Mobility in soil	No further relevant information available.	
2.5 Results of PBT and vPvE		
PBT:	The substances in the mixture do not meet the PBT/vPvB criteria accordin	
	The substances in the mixture do not meet the PBT/vPvB criteria accordin	g to REACH, annex XIII.
2.6 Endocrine disrupting	The product does not contain substances with endocrine disrupting proper	tion
2.7 Other adverse effects	The product does not contain substances with endocrine disrupting proper	ues.
Additional ecological inform	ation:	
General notes:	Water hazard class 1 (German Regulation) (Self-assessment): slightly haz	ardous for water
	Do not allow undiluted product or large quantities of it to reach ground wate system.	er, water course or sewage

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, IATA 	UN3108
 • 14.2 UN proper shipping name • ADR • IMDG, IATA 	UN3108 ORGANIC PEROXIDE TYPE E, SOLID (2,5-DIMETHYL-2,5-DI- (tertBUTYLPEROXY)-HEXANE) ORGANIC PEROXIDE TYPE E, SOLID (2,5-DIMETHYL-2,5-DI-(tert
	BUTYLPEROXY)-HEXANE) (Contd. on page 7) IE



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14.3 Transport hazard class(es)	
ADR	
· Class · Label	5.2 (P1) Organic peroxides. 5.2
IMDG, IATA	
.	
· Class · Label	5.2 Organic peroxides. 5.2
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user · Hazard identification number (Kemler code): · Stowage Category · Stowage Code · Segregation Code	Warning: Organic peroxides. - D SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
14.7 Maritime transport in bulk according to IMO ins	struments Not applicable.
Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category	500 g Code: E0 Not permitted as Excepted Quantity 2
Tunnel restriction code	D
· RID / GGVSEB:	like ADR
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	500 g Code: E0 Not permitted as Excepted Quantity

SECTION 15: Regulatory information

 \cdot 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) fo	ır 🛛
the application of lower-tier	
requirements	50 t
Qualifying quantity (tonnes) fo	ır
the application of upper-tier	200.4
requirements	200 t
 REGULATION (EC) No 1907/2006 ANNEX XVII 	Conditions of restriction: 3
II	restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex
None of the ingredients is listed.	
· REGULATION (EU) 2019/1148	
· Annex I - RESTRICTED EXPLC	OSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.	
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· Regulation (EC) No 273/2004 o	n 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 informat	ion	
This information is based on our p not establish a legally valid contra	resent knowledge. However, this shall not constitute a guarantee for any specific product features and sha ctual relationship.	
· Relevant phrases	H242 Heating may cause a fire. H315 Causes skin irritation.	
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) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International 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 Concentration (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LDS0: Lethal concentration, 50 percent DBD: Percent Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Org. Perox. E: Organic peroxides – Type C/D Org. Perox. E: Organic peroxides – Type E/F Skin Iritt. 2: Skin corrosion/irritation – Category 2	
* Data compared to the previous version altered.		

