

Version: 12 (replaces version 11)

PERGAN The Peroxide Company

Revision: 16.02.2023

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

· 1.1 Product identifier

PEROXAN PK295 V

· Trade name:	FLINDAAN FINZJU V	
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: Horordo identifi		

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Org. Perox. E H242 Heating may cause a fire.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.

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.



· Signal word	Danger	
· Hazard-determining		
components of labelling:	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	
	di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide	
 Hazard statements 	H242 Heating may cause a fire.	
	H304 May be fatal if swallowed and enters airways.	
	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.	
	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.	
	P243 Take action to prevent static discharges.	
	P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.	
	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.	
	P331 Do NOT induce vomiting.	
	P405 Store locked up.	
	P410 Protect from sunlight.	
	P411+P235 Store at temperatures not exceeding +30°C. Keep cool.	
	P420 Store separately.	
	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
2.3 Other hazards	5	
· Results of PBT and vPvB asse	ssment	
· 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-		
disrupting properties	The product does not contain substances with endocrine disrupting properties.	

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

 Dangerous components: 		
CAS: 6731-36-8	di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide	50-60%
EINECS: 229-782-3	Org. Perox. B, H241	
Reg-No.: 01-2119735694-30		
CAS: 93685-81-5	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	40-50%
EINECS: 297-629-8	Alternative CAS number: 13475-82-6	
Reg-No.: 01-2119490725-29	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413	
 Additional information: 	For the wording of the listed hazard phrases refer to section 16.	

Take care of personal protection for the first aider.

SECTION 4: First aid measures

4.1 Description of first aid measures · General information:

- · After inhalation:
- · After skin contact:
- After eye contact:
- After swallowing:

treatment needed

· 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate

medical attention and special

No further relevant information available.

Immediately remove contaminated clothing.

If symptoms persist consult doctor.

Take affected persons into fresh air and keep quiet.

Rinse opened eye for several minutes under running water.

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. · For safety reasons unsuitable extinguishing agents: Water with full jet 5.2 Special hazards arising from Under certain fire conditions, traces of other toxic gases cannot be excluded. the substance or mixture 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.
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.
 6.2 Environmental precautions: 	Inform respective authorities in case of seepage into water course or sewage system.
	Do not allow to enter sewers/ surface or ground water.
· 6.3 Methods and material for	
containment and cleaning up:	Dispose contaminated material as waste according to section 13.
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.
	(Contra on normal)

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31 Version: 12 (replaces version 11)

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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). Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e.g. heavymetal 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. · 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. Store away from foodstuffs, drinks and feeding stuffs. Further information about storage conditions: Keep container tightly sealed. Protect from heat and direct sunlight. Protect from contamination. Storage in a collecting room is required. Recommended storage temperature (To maintain max.: +30 °C quality): Storage class: 5.2 7.3 Specific end use(s) No further relevant information available. **SECTION 8: Exposure controls/personal protection**

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 monitored at the workplace. DNELs 6731-36-8 di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide Dermal DNEL Longterm System 2 mg/kg bw/day (Worker)

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Inhalative DNEL Longterm Syst	em 1.4 mg/m3 (Worker)	(Contd. of page 3
· PNECs		
6731-36-8 di-tert-butyl 3,3,5-tri	methylcyclobexylidene dinero	vido
PNEC Marinewater sed 0,01 mg		
PNEC Freshwater sed 0,102 m		
	g/kg soil dw (AF 10)	
	/I (AF 10)	
· Additional information:	The lists valid during the mal	king were used as basis
	The lists valid during the mai	
8.2 Exposure controls • Appropriate engineering		
controls	No further data; see section	7.
Individual protection measure		
General protective and		
hygienic measures:		asures are to be adhered to when handling chemicals.
	Keep away from foodstuffs, to Immediately remove all soile	
	Wash hands before breaks a	
	Store protective clothing sep	arately.
	Do not eat, drink, smoke or s	
	Use skin protection cream fo	
· Respiratory protection:	Not necessary if room is well	ghly after work and before breaks. I-ventilated
	Use suitable respira	tory device when it exceed exposure limit and when insufficiently ventilated.
	Filter A2	
· Hand protection		e gloves with CE-labelling of category III.
		e material on consideration of the penetration times, rates of diffusion and the
	degradation	
	Protective gloves	
· Material of gloves		gloves does not only depend on the material, but also on further marks of
J J J J J J J J J J	quality and varies from manu	
	Butyl rubber, BR	
	Fluorocarbon rubber (Viton)	
	Nitrile rubber, NBR Neoprene	
 Penetration time of glove 	Neopielle	
material	The exact break trough time	has to be found out by the manufacturer of the protective gloves and has to b
— <i>и</i> – , , ,	observed.	
· Eye/face protection	Tightly sealed goggl	
	Tightiy sealed goggi	65
 Body protection: 		
	Protective work cloth	ning
	•	
SECTION 9: Physical and c	nemical properties	
9.1 Information on basic physi	cal and chemical properties	
 General Information Colour: 		Colourless
· Odour:		Colouriess 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 I	imit	Net determents of
· Lower: · Upper:		Not determined. Not determined.
Flash point:		> SADT
· Decomposition temperature:		+60 °C (SADT)
· pH		Not determined.
· Viscosity:		
Kinematic viscosity		Not determined.
· Dynamic:		Not determined.
		(Contd. on page

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· Solubility	
water:	Undetermined.
 Partition coefficient n-octanol/water (log value) 	not determined
· Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	0,850 g/cm³
Relative density	Not determined.
· Vapour density	Not determined.
· 9.2 Other information	No further relevant information available.
· Appearance:	
Form:	Fluid
· Important information on protection of health and enviro	onment,
and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour
	mixtures are possible.
· Solvent content:	
· VOC (EC)	387,9 g/l
· 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 	
contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Heating may cause a fire.
Corrosive to metals	Void
Desensitised explosives	Void
Other safety characteristics	
Active oxygen	5,2 - 5,5 %

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 acceleratin 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.	ıg
· 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. heavy-metal compounds and amines).	g.
· 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.	
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11.1 Information on hazard clas Acute toxicity	ses as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.
· LD/LC50 values relevant for cl	assification:
6731-36-8 di-tert-butyl 3,3,5-trim	ethylcyclohexylidene diperoxide
Oral LD50 >2.000 mg/kg (ratt	us)
Dermal LD50 >2.000 mg/kg (ratt	us)
93685-81-5 Hydrocarbons, C4, 1	,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated
Oral LD50 >5.000 mg/kg (ratt	us)
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin	
sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	May be fatal if swallowed and enters airways.
11.2 Information on other hazar	
Endocrine disrupting propertie	95

SECTION 12: Ecological information 12.1 Toxicity · Aquatic toxicity: 93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated EC50 / 48h >0,04 mg/l (daphnia) IC50 / 72h >0,04 mg/l (algae) 12.2 Persistence and degradability · Degree of elimination: · Classification: 6731-36-8 di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide Degradation (Evidence for inherent biodegradability.) (OECD 301 D) 93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated Degradation (Not readily biodegradable) 12.4 Mobility in soil No further relevant information available. 12.5 Results of PBT and vPvB assessment · PBT: 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. · vPvB: · 12.6 Endocrine disrupting The product does not contain substances with endocrine disrupting properties. properties 12.7 Other adverse effects No further relevant information available. · Remark: Very toxic for fish Additional ecological information: Also poisonous for fish and plankton in water bodies. General notes: Very 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 considerations

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.



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· Waste disposal key:	(Contd. of page 6) Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)- number.
Incloaned packaging	

Uncleaned packaging: · Recommendation:

This material and its container must be disposed of as hazardous waste.

 14.2 UN proper shipping name ADR IMDG, IATA 14.3 Transport hazard class(es) ADR ADR Class Label IMDG, IATA Class Label IMDG, IATA ADR, IMDG, IATA 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: 14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category 	UN3107 UN3107 ORGANIC PEROXIDE TYPE E, LIQUID (1,1-DI-(tert- BUTYLPEROXY)-3,3,5-TRIMETHYLCYCLOHEXANE) ORGANIC PEROXIDE TYPE E, LIQUID (1,1-DI-(tert-BUTYLPEROXY)- 3,3,5-TRIMETHYLCYCLOHEXANE) 5.2 (P1) Organic peroxides. 5.2 5.2 Void
 IMDG, IATA 14.3 Transport hazard class(es) ADR ADR Class Label IMDG, IATA Class Label IMDG, IATA ADR, IMDG, IATA 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: 14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category 	BUTYLPEROXY)-3,3,5-TRIMETHYLCYCLOHEXANE) ORGANIC PEROXIDE TYPE E, LIQUID (1,1-DI-(tert-BUTYLPEROXY)- 3,3,5-TRIMETHYLCYCLOHEXANE) 5.2 (P1) Organic peroxides. 5.2 5.2 5.2 Organic peroxides. 5.2
14.3 Transport hazard class(es) ADR Image: Class Label IMDG, IATA IMDG, IATA Image: Class Label IMDG, IATA Image: Class Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: 14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category	 3,3,5-TRIMETHYLCYCLOHEXANE) 5.2 (P1) Organic peroxides. 5.2 5.2 Organic peroxides. 5.2
ADR Class Class Label IMDG, IATA Class Label Class Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: 14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category	5.25.2 Organic peroxides.5.2
Class Label IMDG, IATA Class Label IMDG, IATA Class Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: 14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category	5.25.2 Organic peroxides.5.2
Label IMDG, IATA IMDG, IATA Class Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: 14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category	5.25.2 Organic peroxides.5.2
 Label IMDG, IATA Class Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: 14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category 	5.25.2 Organic peroxides.5.2
Class Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: 14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category	5.2
Label 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: 14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category	5.2
 ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: 14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category 	Void
Marine pollutant: 14.6 Special precautions for user Hazard identification number (Kemler code): Stowage Category	
Hazard identification number (Kemler code): Stowage Category	Yes
· Stowage Category	Narning: Organic peroxides.
	-
	D SW4 Distanted from courses of heat
· Stowage Code · Segregation Code	SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids
Segregation Code	SG36 Stow "separated from" SGG1aclds SG36 Stow "separated from" SGG18-alkalis. SG72 See 7.2.6.3.2.
· 14.7 Maritime transport in bulk according to IMO instruments N	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	125 ml
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D
· RID / GGVSEB:	like ADR
· IMDG	
Limited quantities (LQ)	125 ml Code: E0
· Excepted quantities (EQ)	Not permitted as Excepted Quantity

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

None of the ingredients is listed.

- ANNEX I

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Seveso category	(Contd. of page 7) P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
 Qualifying quantity (tonnes) for the application of lower-tier 	
requirements · Qualifying quantity (tonnes) for	50 t
the application of upper-tier	
requirements · REGULATION (EC) No	200 t
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
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	I drug precursors
None of the ingredients is listed.	
Regulation (EC) No 111/2005 lay precursors	ying down rules for the monitoring of trade between the Community and third countries in drug
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. H241 Heating may cause a fire or explosion. H304 May be fatal if swallowed and enters airways. 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:	11
· 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 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)
	VOC: Volatile Organic Compounds (USA, EU)
	DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH)
	LCS0: Lethal concentration, 50 percent
	LD50: Lethal dose, 50 percent
	PBT: Persistent, Bioaccumulative and Toxic
	vPvB: very Persistent and very Bioaccumulative
	Flam. Liq. 3: Flammable liquids – Category 3
	Org. Perox. B: Organic peroxides – Type B
	Org. Perox. E: Organic peroxides – Type E/F Asp. Tox. 1: Aspiration hazard – Category 1
	Aquatic Chronic 4: Hazardou - Categoly I
· * Data compared to the	
previous version altered.	