Printing date 04.04.2024

Version: 12 (replaces version 11)

• **The Peroxide Company**

Revision: 15.12.2023

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

· 1.1 Product identifier

PEROXAN DC-Paste 50 SI/3

 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 	· Trade name:	PEROXAN DC-Paste 50 S
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 Herein and the substance / For the substance / Part of the substance	· 1.2 Relevant identified uses of the	
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from: Environment protection / Security of labour Qualified person: E-mail: msds@pergan.com	••	PERGAN GmbH Hilfsstoffe für industrielle Prozesse Schlavenhorst 71 D-46395 Bocholt Tel: +49 2871 9902-0
	from: • 1.4 Emergency telephone	Qualified person: E-mail: msds@pergan.com

SECTION 2: Hazards identification

2.1 Classification of the substand Classification according to Re			
Org. Perox. F H242 Heatir	ng may cause a fire.		
Skin Irrit. 2 H315 Cause	es skin irritation.		
Eye Irrit. 2 H319 Cause	es serious eye irritation.		
,	ause an allergic skin reaction.		
- ,	5		
	amage the unborn child.		
Aquatic Chronic 2 H411 I oxic	to aquatic life with long lasting effects.		
· 2.2 Label elements			
Labelling according to			
Regulation (EC) No 1272/2008	The product is classified and labelled according to the CLP regulation.		
 Hazard pictograms 			
	GHS02 GHS07 GHS08 GHS09		
· Signal word	Danger		
· Hazard-determining			
components of labelling:	bis(a,a-dimethylbenzyl) peroxide		
 Hazard statements 	H242 Heating may cause a fire.		
	H315 Causes skin irritation.		
	H319 Causes serious eye irritation.		
	H317_ May cause an allergic skin reaction.		
	H360D May damage the unborn child.		
	H411 Toxic to aquatic life with long lasting effects.		
 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.		
	P273 Avoid release to the environment.		
	P280 Wear protective gloves/protective clothing/eve protection/face protection/hearing		
	protection.		
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if		
	present and easy to do. Continue rinsing.		
	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.		
· Additional information:	Restricted to professional users.		
· 2.3 Other hazards	· · · · · · · · · · · · · · · · · · ·		
	· Results of PBT and vPvB assessment		
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.		
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.		

(Contd. on page 2) MT -

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Trade name: PEROXAN DC-Paste 50 SI/3

Determination of endocrine- disrupting properties	(Contd. of page
SECTION 3: Composition/in	formation on ingredients
3.2 Mixtures	
Dangerous components:	
	a,a-dimethylbenzyl) peroxide J. Perox. F, H242; Repr. 1B, H360D; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; n Sens. 1B, H317
Additional information:	For the wording of the listed hazard phrases refer to section 16.
SECTION 4: First aid measu	res
4.1 Description of first aid mea	
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.
After skin contact:	Take affected persons into fresh air and keep quiet. Immediately wash with water and soap and rinse thoroughly.
Alter Skill Contact.	Immediately remove contaminated clothing.
After eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing: 4.2 Most important symptoms	If symptoms persist consult doctor.
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.
5.1 Extinguishing media Suitable extinguishing agents 5.2 Special hazards arising from the substance or mixture 5.3 Advice for firefighters Protective equipment: Additional information	 CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid. Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray. Self-protection first!
SECTION 6: Accidental rele	ase 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.
6.2 Environmental precautions	Wear protective equipment. Keep unprotected persons away. 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:	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 8 for information on personal protection equipment. See Section 13 for disposal information.
	(Contd. on page

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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

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Trade name: PEROXAN DC-Paste 50 SI/3

case of large spillage the environmental authority should be informed

(Contd. of page 2)

explosion protection: Protect from heat. Protect against electrostatic charges. Prevent impact and friction. Use explosion-proof apparatus / fittings and spark-proof tools. Furwent impact and friction. Use explosion-proof apparatus / fittings and spark-proof tools. Furwent impact and friction. Use explosion-proof apparatus / fittings and spark-proof tools. Furwes can combine with air to form an explosive mixture. Image: Formation of flammable or explosive gas/air-mixtures is possible. Image: Formation of flammable or explosive gas/air-mixtures is possible. Image: Avoid open flames, sparks, direct sunlight and other sources of ignition. Keep ignition sources away - Do not smoke. Protect only in the original receptacle. Prevent any seepage into the ground. Use only in the original receptacle. Storage in one common storage facility Do not store or park organic peroxide together with heavy metal compounds and amines. Storage conditions: Keep container tightly sealed. Protect from heat and direct sunlight. Protect from heat and direct sunlight. Protect from heat and direct sunlight. Protect from heat and direct sunlight. Protect from heat and direct sunlight. Storage in a collecting room is required. * Recommended storage temperature (To maintain quality):		In case of large spillage the environmental authority should be informed.
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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. Image: Formation of flammable or explosive gas/air-mixtures is possible. Image: Avoid open flames, sparks, direct sunlight and other sources of ignition. Keep ignition sources away - Do not smoke. 7.2 Conditions for safe storage, Information to be met by storage: Pay attention to the special requirements of your local autorithies for storing dangerous goods. Requirements to be met by 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. Protect from heat and direct sunlight. Protect from container tightly seeled. Protect from containnation. Storage is a collecting room is required. * Recommended storage temperature (To maintain quality): storage class: 5.2 7.3 Specific end use(s) No further relevant information available.	Information about fire - and	
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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 quality): +5 +30 °C Storage class: 5.2 7.3 Specific end use(s) No further relevant information available.		Avoid open flames, sparks, direct sunlight and other sources of ignition.
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 quality): +5 +30 °C Storage class: 5.2 7.3 Specific end use(s) No further relevant information available.		Keen ignition sources away - Do not smoke
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 quality): +5 +30 °C Storage class: 5.2 7.3 Specific end use(s) No further relevant information available.		
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7.3 Specific end use(s) No further relevant information available. SECTION 8: Exposure controls/personal protection		
SECTION 8: Exposure controls/personal protection		No further relevant information available.
	SECTION 8: Exposure contr	ols/personal protection
x 1 Control parameters	8.1 Control parameters	

· Ingredients with limit values that require monitoring at the The product does not contain any relevant quantities of materials with critical values that have to be workplace: monitored at the workplace. ·DNELs

L	DILLS		
		s(a,a-dimethylbenzyl) pe	
	Oral	DNEL Longterm System	0,4 mg/kg bw/day (General population)
			(Contd. on page 4)



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The Peroxide Company

Revision: 15.12.2023

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0,8 mg/kg bw/day (Worker) 0,4 mg/kg bw/day (General population) 5,6 mg/m3 (Worker) 1,4 mg/m3 (General population) enzyl) peroxide 0234 mg/l (AF 50) 4 mg/kg sed dw (-) 47 mg/kg soil dw (-) 0 mg/l (AF 10)		
System 5,6 mg/m3 (Worker) 1,4 mg/m3 (General population) enzyl) peroxide 0234 mg/l (AF 50) 4 mg/kg sed dw (-) 47 mg/kg soil dw (-)		
1,4 mg/m3 (General population) enzyl) peroxide 0234 mg/l (AF 50) 4 mg/kg sed dw (-) 47 mg/kg soil dw (-)		
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0234 mg/l (AF 50) 4 mg/kg sed dw (-) 47 mg/kg soil dw (-)		
4 mg/kg sed dw (-) 47 mg/kg soil dw (-)		
47 mg/kg soil dw (-)		
) mg/l (AF 10)		
÷ , ,		
The lists valid during the making were used as basis.		
No further data; see section 7.		
asures, such as personal protective equipment		
The usual precautionary measures are to be adhered to when handling chemicals.		
Keep away from foodstuffs, beverages and feed.		
Immediately remove all soiled and contaminated clothing		
Wash hands before breaks and at the end of work.		
Store protective clothing separately. Avoid close or long term contact with the skin.		
Avoid couse of long term contact with the 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.		
Not necessary if room is well-ventilated.		
Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated. Filter A2		
Only use chemical-protective gloves with CE-labelling of category III.		
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation		
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		
ve		
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be		
observed.		
Tightly sealed goggles		
Protective work clothing		

Not determined.

Not determined. Not determined.

- Flammability
 Lower and upper explosion limit
- · Lower:
- · Upper: · Flash point:

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	(Contd. of page
· 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 at 20 °C:	0,85 - 1,12 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.
• 9.2 Other information • Appearance:	No further relevant information available.
Form:	Pasty
· Important information on protection of health and enviror	
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
 Other safety characteristics 	
· Active oxygen	2.9 -3.0 %

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.

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•	Additional	information:
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(Contd. of page 5) Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.

SECTION 11: Toxicological information

 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 			
 Acute toxicity 	Based on available data, the classification criteria are not met.		
· LD/LC50 values relevant for classification:			
80-43-3 bis(a,a-dimethylbenzyl)	peroxide		
Oral LD50 >2.000 mg/kg (ratt	us)		
Dermal LD50 >2.000 mg/kg (ratt	us)		
Skin corrosion/irritation	Causes skin irritation.		
 Serious eye damage/irritation 	Causes serious eye irritation.		
Respiratory or skin			
sensitisation	May cause an allergic skin reaction.		
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 	May damage the unborn child.		
 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 propertie 	S		
None of the ingredients is listed.			

12.1 Toxicity		
Aquatic toxicity:		
80-43-3 bis(a,a-dimethylbenzy	/l) peroxide	
EC50 / 72h >20 mg/l (algae)		
EC50 >1.000 mg/l (activa	a sludge)	
12.2 Persistence and degrada	ability	
 Degree of elimination: 		
· Classification:		
80-43-3 bis(a,a-dimethylbenzy	/I) peroxide	
Degradation (Not readily biode	egradable) (OECD 301 F)	
12.3 Bioaccumulative potenti	al	
· Partition coefficient: nOctar	iol/water: [Log Kow]	
80-43-3 bis(a,a-dimethylbenzyl	l) peroxide	5,6 (25°C
Bioconcentration factor (BCI	F)	
80-43-3 bis(a,a-dimethylbenzy	/l) peroxide	
BCF 747		
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 REACH, annex	
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex	XIII.
12.6 Endocrine disrupting		
properties	The product does not contain substances with endocrine disrupting properties.	
12.7 Other adverse effects	No further relevant information available.	
· Remark:	Toxic for fish	
 Additional ecological information General notes: 		
General notes:	Also poisonous for fish and plankton in water bodies.	
	Toxic for aquatic organisms Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water	
	Do not allow product to reach ground water, water course or sewage system, even in small gu	antities
	Danger to drinking water if even extremely small quantities leak into the ground.	annucs.

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SECTION 13: Disposal considerations	
· 13.1 Waste treatment methods	

· Recommendation

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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.

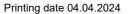
· Waste disposal key:

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.

14.1 UN number or ID number ADR, IMDG, IATA	UN3110
14.2 UN proper shipping name ADR	UN3110 ORGANIC PEROXIDE TYPE F, SOLID (DICUMYL PEROXIDE) ENVIRONMENTALLY HAZARDOUS
IMDG	ORGANIC PEROXIDE TYPE F, SOLID (DICUMYL PEROXIDE), MARIN POLLUTANT
	ORGANIC PEROXIDE TYPE F, SOLID (DICUMYL PEROXIDE)
14.3 Transport hazard class(es)	
ADR	
· Class · Label	5.2 (P1) Organic peroxides. 5.2
·IMDG	
· Class · Label	5.2 Organic peroxides. 5.2
· Class	5.2 Organic peroxides.
·Label	5.2
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards:	Product contains environmentally hazardous substances: DICUMYL PEROXIDE
Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user · Hazard identification number (Kemler code):	Warning: Organic peroxides. -
Stowage Category	
· Stowage Code	SW1 Protected from sources of heat.
· Segregation Code	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
14.7 Maritime transport in bulk according to IMO instr	uments Not applicable.
Transport/Additional information:	
· ADR	



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(Contd. of page 7)
Code: E0 Not permitted as Excepted Quantity
2
D
like ADR
500 g
Code: E0
Not permitted as Excepted Quantity

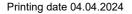
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · Directive 2012/18/EU · Named dangerous substances - ANNEX I None of the ingredients is listed. Seveso category P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES E2 Hazardous to the Aquatic Environment · Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t Qualifying quantity (tonnes) for the application of upper-tier 200 t requirements **REGULATION (EC) No** 1907/2006 ANNEX XVII Conditions of restriction: 3, 30, 75 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.

 Department issuing SDS: 	Environment protection / Security of labour	
· Contact:	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) 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. F: Organic peroxides – Type E/F	
	Skin Irrit. 2: Skin corrosion/irritation – Category 2	



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Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B Repr. 1B: Reproductive toxicity – Category 1B Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

 * Data compared to the previous version altered.

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