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The Peroxide Company

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

· 1.1 Product identifier

DEDOVAN EDC 75

· Trade name:	PEROXAN EPC-75	
· 1.2 Relevant identified uses of th	ne 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 • Manufacturer/Supplier:	safety data sheet 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: 1.4 Emergency telephone number: 	Environment protection / Security of labour Qualified person: E-mail: msds@pergan.com - Tel: +49 2871 9902-0	
SECTION 2 [•] Hazards identific	ation	

SECTION 2: Hazards identification

· 2.1 Classification of the substar	nce or mixture	
 Classification according to Reg 	gulation (EC) No 12	72/2008
Flam. Liq. 3 H226 Flammable liquid and vapour.		
Org. Perox. D H242 Heating may cause a fire.		
	•	
Skin Irrit. 2 H315 Causes skir		
Eye Dam. 1 H318 Causes seri	ous eye damage.	
Skin Sens. 1 H317 May cause	an allergic skin react	ion.
Asp. Tox. 1 H304 May be fata	l if swallowed and er	iters airways.
2.2 Label elements		
· Labelling according to		
Regulation (EC) No 1272/2008	The product is clar	ssified and labelled according to the GB CLP regulation.
· Hazard pictograms		
nazaru pictogranis		
	GHS02 GHS05 GI	HS07 GHS08
· Signal word	Danger	
· Hazard-determining		
components of labelling:	bis(2-ethylhexyl) p	eroxvdicarbonate
··· [····· 3		, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated
 Hazard statements 	H226 Flammable	
	H242 Heating may	
	H315 Causes skin	
	H318 Causes seri	bus eye damage.
	H317 May cause a	an allergic skin reaction.
	H304 May be fatal	if swallowed and enters airways.
 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.
	P264	Wash thoroughly after handling.
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
	5004 5040	protection.
	P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	P331	Do NOT induce vomiting.
	P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
		water [or shower].
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	P362+P364	present and easy to do. Continue rinsing. Take off contaminated clothing and wash it before reuse.
	P302+P304 P403+P235	Store in a well-ventilated place. Keep cool.
	P403+P235 P405	Store locked up.
	P405 P410	Protect from sunlight.
	P410 P411	Store at temperatures not exceeding -15°C.
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	P420	Store separately.
	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other hazards		
. Deculte of DBT and vDvB as	encement	

sults of PBT and vPvB assessment

· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

	· Dangerous components:		
	CAS: 16111-62-9 EINECS: 240-282-4 Reg-No.: 01-2119964452-35	bis(2-ethylhexyl) peroxydicarbonate Org. Perox. C, H242; Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317	70-80%
	CAS: 93685-81-5 EINECS: 297-629-8 Reg-No.: 01-2119490725-29	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated Alternative CAS number: 13475-82-6 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413	20-25%
_	· 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:
- · 4.2 Most important symptoms and effects, both acute and
- delayed
- 4.3 Indication of any immediate medical attention and special treatment needed

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. Immediately wash with water and soap and rinse thoroughly. Immediately remove contaminated clothing. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. If symptoms persist consult doctor. No further relevant information available.

No further relevant information available.

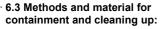
SECTION 5: Firefighting measures

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 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.	
	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.	



Dispose contaminated material as waste according to section 13.

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	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

SECTION 7. Handling and st	Jorage
 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. 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.
· 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,	
 Storage: Requirements to be met by 	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: 	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.
• Recommended storage	
temperature (To maintain quality):	-2515 °C
Control temperature:	-15 °C -5 °C
 Emergency temperature: 7.3 Specific end use(s) 	No further relevant information available.

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SECTION 8: Exposu	SECTION 8: Exposure controls/personal protection			
8.1 Control parameters Ingredients with limit that require monitorin workplace:	values			
·DNELs				
16111-62-9 bis(2-ethylh	nexyl) peroxydicarbonate			
Dermal DNEL Longte	rm System 6.67 mg/kg bw/day (Worker)			
Inhalative DNEL Longte	erm System 11.75 mg/m3 (Worker)			
PNECs				
16111-62-9 bis(2-ethylh	nexyl) peroxydicarbonate			
PNEC Marinewater sed	0.0228 mg/kg sed dw (-)			
PNEC Freshwater	0.032 mg/l (AF 50)			
PNEC Freshwater sed	0.228 mg/kg sed dw (-)			
PNEC Soil	0.0269 mg/kg soil dw (-)			
PNEC STP	1.5 mg/l (AF 10)			
PNEC Marinewater	0.0032 mg/l (AF 500)			
· Additional informatio				
 8.2 Exposure controls Appropriate engineeri controls Individual protection i General protective ar hygienic measures: 	No further data; see section 7. measures, such as personal protective equipment nd The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all solled 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.			
· 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 g material 				

· Eye/face protection

· Body protection:

Tightly sealed goggles



Protective work clothing

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SECTION 9: Physical and chemical properties	
9.1 Information on basic physical and chemical properties General Information	
· Colour:	Colourless
· Odour:	Solvent-like
· 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:	57 °C
Decomposition temperature:	+5 °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:	0.921 g/cm ³
· 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 environment 	ent,
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	N - 4 d - 4 - m - 2 d
· 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	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
• Active oxygen	3.4 - 3.6 %

SECTION 10: Stability and reactivity

10.1 Reactivity
 10.2 Chemical stability

 Thermal decomposition / conditions to be avoided: No further relevant information available.

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

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mposition at or below the SADT.
ecomposition if used and stored according to specifications.
void thermal decomposition do not overheat.
accelerating decomposition at SADT.
Irther relevant information available.
d decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g.
y-metal compounds and amines).
ocarbons, carbondioxide and -monoxid.
azardous decomposition products if used and stored according to specifications.
rgency procedures will vary depending on conditions. The customer should have an emergency onse 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 cl	assification:	
16111-62-9 bis(2-ethylhexyl) per	oxydicarbonate	
Oral LD50 >2,000 mg/kg (ratte	us)	
Dermal LD50 >2,000 mg/kg (ratte	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	Causes skin irritation.	
· Serious eye damage/irritation	Causes serious eye damage.	
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 	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 hazards		
· Endocrine disrupting properties		
None of the ingredients is listed.	None of the ingredients is listed.	

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 degrada	bility		
 Degree of elimination: 			
· Classification:			
16111-62-9 bis(2-ethylhexyl) peroxydicarbonate			
Degradation (Readily biodegradable) (OECD 301 B)			
93685-81-5 Hydrocarbons, C4,	, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated		
Degradation (Not readily biode	gradable)		
12.3 Bioaccumulative potentia	al		
Partition coefficient: nOctan	ol/water: [Log Kow]		
16111-62-9 bis(2-ethylhexyl) pe	eroxydicarbonate	2,73	
12.4 Mobility in soil	No further relevant information available.	i	
12.5 Results of PBT and vPvB assessment			
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH		
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to UK 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.		
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· Remark:	Toxic for fish			
· Additional ecological information:				
· General notes:	Toxic for aquatic organisms Also poisonous for fish and plankton in water bodies. 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 spec 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.	ial		
· 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	UN3115
 14.2 UN proper shipping name ADR 	UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (DI-(2-ETHYLHEXYL)-PEROXYDICARBONATE)
·IMDG	ORGANIC PERÒXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (DI-(2-ETHYLHEXYL)-PEROXYDICARBONATE)
· 14.3 Transport hazard class(es)	
ADR	
· Class · Label	5.2 (P2) Organic peroxides. 5.2
·IMDG	
.	
Class	5.2 Organic peroxides.
Label	5.2
· IATA · Class	Х
Label	Â
· 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.
-	SW3 Shall be transported under temperature control.
· Segregation Code	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
· 14.7 Maritime transport in bulk according to IMO instr	ruments Not applicable.
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Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· Transport category	1
Tunnel restriction code	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:	-15 °C
Emergency temperature:	-5 °C

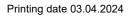
SECTION 15: Regulatory information

· Regulated explosives precursors None of the ingredients is listed. · Regulated poisons None of the ingredients is listed. · Reportable explosives precursors None of the ingredients is listed. · Reportable poisons None of the ingredients is listed. · Reportable poisons None of the ingredients is listed. · Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t · Qualifying quantity (tonnes) for the application of upper-tier requirements 50 t · OINECTIVE 2011/8/EU · Directive 2020 d · DIRECTIVE 2011/165/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II None of the ingredients is listed. · Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)) None of the ingredients is listed. · Annex I - 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 th	$^{\cdot}$ 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture $^{\cdot}$ Poisons Act
Regulated poisons None of the ingredients is listed. Reportable explosives precursors None of the ingredients is listed. Reportable poisons None of the ingredients is listed. Reportable poisons One of the ingredients is listed. Directive 2012/18/EU Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t Qualifying quantity (tonnes) for the application of oupper-tier requirements 200 t DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II None of the ingredients is listed. Annex 1 - 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. None	· Regulated explosives precursors
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Reportable explosives precursors None of the ingredients is listed. Reportable poisons None of the ingredients is listed. Directive 2012/18/EU Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t OIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II None of the ingredients is listed. Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)) None of the ingredients is listed. Annex I - RESTRICTED 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. Regulation s: None of the ingredients is listed. 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. None of the ingredients is listed. 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. None of the ingr	· Regulated poisons
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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



Version: 7 (replaces version 6)

Revision: 16.02.2023

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The Peroxide Company

Trade name: PEROXAN EPC-75

	(Contd. of page 8)
	 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. H318 Causes serious eye damage. 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
Abbreviations and acronyms:	 RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent DD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Lig. 3: Flammable liquids – Category 3 Org. Perox. D: Organic peroxides – Type C/D Org. Perox. D: Organic peroxides – Type C/D Org. Perox. D: Organic peroxides – Type C/D Skin Sens. 1: Skin sensitisation – Category 1 Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4
* Data compared to the previous version altered.	