Printing date 03.04.2024

Version: 8 (replaces version 7)



Revision: 16.02.2023

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

· 1.1 Product identifier

PEROXAN PPV-25 IBC

Trade name:
 Trade name:
 Application of the substance /
 the mixture
 Reaction initiator
 For industrial use
 Table alls of the supplier of the safety data sheet

· Manufacturer/Supplier:	PERGAN GmbH Hilfsstoffe für industrielle Prozesse Schlavenhorst 71 D-46395 Bocholt Tel: +49 2871 9902-0
	Fax: +49 2871 9902-50
· Further information obtainable	
from:	Environment protection / Security of labour Qualified person: E-mail: msds@pergan.com
 1.4 Emergency telephone number: 	- Tel: +49 2871 9902-0

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

1	Classification acc	cording to Regulation (EC) No 1272/2008
	Flam. Liq. 3	H226 Flammable liquid and vapour.
	Org. Perox. F	H242 Heating may cause a fire.
	Skin Irrit. 2	H315 Causes skin irritation.
	Skin Sens. 1	H317 May cause an allergic skin reaction.
	STOT SE 3	H335 May cause respiratory irritation.
	Asp. Tox. 1	H304 May be fatal if swallowed and enters airways.
	Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.

· 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.



	GHS02 GHS07 GI	HS08 GHS09
· Signal word	Danger	
 Hazard-determining components of labelling: 	Hydrocarbons, C4 tert-butyl peroxypiv	, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated
· Hazard statements	H226 Flammable I H242 Heating may H315 Causes skin H317 May cause a H335 May cause r	iquid and vapour. / cause a fire.
		atic 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.
	P243	Take action to prevent static discharges.
	P264	Wash thoroughly after handling.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
	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].
	P362+P364	Take off contaminated clothing and wash it before reuse.
	P405	Store locked up.
	P410	Protect from sunlight.
	P411+P235	Store at temperatures not exceeding +10°C. Keep cool.
		$(\mathbf{O} = \mathbf{v} + \mathbf{I} + \mathbf{v} +$

(Contd. on page 2)

Printing date 03.04.2024

Version: 8 (replaces version 7)

PERGAN The Peroxide Company

Revision: 16.02.2023

Trade name: PEROXAN PPV-25 IBC

disrupting properties	The product	does not contain substances with endocrine disrupting properties.
· Determination of endocrine-		
· vPvB:	The substan	ces in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
Results of PBT and vPvB asse • PBT:		ces in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
2.3 Other hazards		
	P420 P501	Store separately. Dispose of contents/container in accordance with local/regional/national/international regulations.
	D400	(Contd. of page 1

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Dangerous components:		
EINECS: 297-629-8	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	70-80%
	tert-butyl peroxypivalate Org. Perox. C, H242; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3,	20-25%
· 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 measured	ures
· General information:	Take care of personal protection for the first aider.
• After inhalation:	Supply fresh air and to be sure call for a doctor.
	In case of unconsciousness place patient stably in side position for transportation. Take affected persons into fresh air and keep quiet.
· After skin contact:	Immediately wash with water and soap and rinse thoroughly. Immediately remove contaminated clothing.
• After eye contact:	Rinse opened eye for several minutes under running water.
After swallowing:	If symptoms persist consult doctor.
 4.2 Most important symptoms and effects, both acute and 	
delayed	No further relevant information available.
 4.3 Indication of any immediate medical attention and special 	
treatment needed	No further relevant information available.

SECTION 5: Firefighting measures

 5.1 Extinguishing media
 Suitable extinguishing agents:
 For safety reasons unsuitable extinguishing agents:
 5.2 Special hazards arising from the substance or mixture
 5.3 Advice for firefighters
 Protective equipment:
 Do not inhale explosion gases or combustion gases.
 Col endangered receptacles with water spray.

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.

(Contd. on page 3)

Printing date 03.04.2024

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

Version: 8 (replaces version 7)



Revision: 16.02.2023

Trade name: PEROXAN PPV-25 IBC

	(Contd. of page 2)
· 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. 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).
	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.
	Take precodulionary measures against state disonarges.
	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.
storerooms and receptacies.	Prevent any seepage into the ground.
	Use only receptacles specifically permitted for this substance/product.
Information about storage in	Use only receptables specificary permitted for this substance product.
one common storage facility:	Do not store or park organic peroxide together with heavy metal compounds and amines.
one common storage facility.	Store away from foodstuffs, drinks and feeding stuffs.
· Further information about	otore away non roodstand, annite and rooding stand.
storage conditions:	Keep container tightly sealed.
storage conditions.	Protect from heat and direct sunlight.
	Protect from contamination.
	Storage in a collecting room is required.
· Recommended storage	storage in a solicoting room is required.
temperature (To maintain	
• •	max.: -5 °C
quality):	
Control temperature:	+10 °C
Emergency temperature:	+15 °C
· Storage class:	5.2 (Contri on page 4
	(Contd. on page 4

Printing date 03.04.2024

Version: 8 (replaces version 7)



Revision: 16.02.2023

Trade name: PEROXAN PPV-25 IBC

7.3 Specific end use(s)	(Contd. of page No further relevant information available.
SECTION 8: Exposure	e controls/personal protection
8.1 Control parameters Ingredients with limit va that require monitoring workplace:	
· DNELs	
927-07-1 tert-butyl perox	vpivalate
	n System 1,6 mg/kg bw/day (Worker)
Inhalative DNEL Longterr	n System 2,8 mg/m3 (Worker)
PNECs	
927-07-1 tert-butyl perox	ypivalate
PNEC Marinewater sed 0	
PNEC Freshwater 0	,014 mg/l (AF 100)
PNEC Freshwater sed 0	,106 mg/kg sed dw (-)
	,013 mg/kg soil dw
	0.000 mg/l (-)
	,001 mg/l (AF 1.000)
· Additional information	The lists valid during the making were used as basis.
8.2 Exposure controls Appropriate engineering	
controls	No further data; see section 7.
· General protective and	easures, such as personal protective equipment
hygienic measures:	The usual precautionary measures are to be adhered to when handling chemicals.
	Keep away from foodstuffs, beverages and feed.
	Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
	Store protective clothing separately.
	Avoid close or long term contact with the skin.
	Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working.
	Use skin protection cream for skin protection.
	Be sure to clean skin thoroughly after work and before breaks.
· Respiratory protection	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
	Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.
· Hand protection	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
· Material of gloves	Protective gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
	Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene
· Penetration time of glo	
material	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to
	observed.
· Eye/face protection	Tightly sealed goggles
	Tightly sealed goggles Protective work clothing

Printing date 03.04.2024

Version: 8 (replaces version 7)

PERGAN The Peroxide Company

Revision: 16.02.2023

(Contd. of page 4)

Trade name: PEROXAN PPV-25 IBC

SECTION 9: Physical and chemical properties

 9.1 Information on basic physical and chemical properties General Information 	
· Colour:	Colourless
· 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:	> SADT
Decomposition temperature:	+25 °C (SADT)
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
Solubility	Not determined.
water:	Indetermined
	Undetermined.
Partition coefficient n-octanol/water (log value)	not determined
· Vapour pressure:	Not determined.
Density and/or relative density	
Density at 0 °C:	0,81 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· 9.2 Other information	
· Appearance:	
· Form:	Fluid
Important information on protection of health and environment	
and on safety.	2
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.
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 · Corrosive to metals	Heating may cause a fire.
	Void
· Desensitised explosives	Void

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 decomposition at or below the SADT.

Printing date 03.04.2024

Version: 8 (replaces version 7)



Revision: 16.02.2023

Trade name: PEROXAN PPV-25 IBC

	No decomposition if used and stored according to specifications. (Contd. of page 5)
	To avoid thermal decomposition do not overheat.
• 10.3 Possibility of hazardous	
reactions	Self-accelerating decomposition at SADT.
 10.4 Conditions to avoid 	No further relevant information available.
· 10.5 Incompatible materials:	Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e.g. heavy-metal compounds and amines).
· 10.6 Hazardous decomposition	
products:	Hydrocarbons, carbondioxide and -monoxid.
•	No hazardous decomposition products if used and stored according to specifications.
· Additional information:	Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.

SECTION 11: Toxicological information

· 11.1 Infor · Acute to:		hazard class	ses as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.
		levant for cla	
93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated			
Oral	LD50	>5.000 mg/k	g (rattus)
927-07-1 1	tert-butyl p	eroxypivalat	e
Oral	LD50	4.169 mg/kg	(rattus)
Dermal	LD50	2.500 mg/kg	(rabbit)
Inhalative	LC50 / 4h	7,79 mg/l (ra	ttus)
· Skin cor	rosion/irrit	ation	Causes skin irritation.
		e/irritation	Based on available data, the classification criteria are not met.
	ory or skin		
sensitisa			May cause an allergic skin reaction.
	ll mutagen	icity	Based on available data, the classification criteria are not met.
 Carcinog 			Based on available data, the classification criteria are not met.
 Reprodu 	ctive toxic	ity	Based on available data, the classification criteria are not met.
· STOT-sir	ngle expos	ure	May cause respiratory irritation.
· STOT-rej	peated exp	osure	Based on available data, the classification criteria are not met.
Aspiratio	on hazard		May be fatal if swallowed and enters airways.
11.2 Information on other hazards			
· Endocrine disrupting properties			
None of th	ne ingredien	nts is listed.	

SECTION 12: Ecological information

12.1 Toxicity · Aquatic toxicity:		
· Aquatic toxicity:		
/iqualio toxioityi		
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)		
927-07-1 tert-butyl peroxypivalat	e	
LC50 / 96h 29 mg/l (brachydanio	rerio)	
12.2 Persistence and degradabil	ity	
· Degree of elimination:		
· Classification:		
93685-81-5 Hydrocarbons, C4, 1	3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	
Degradation (Not readily biodegra	adable)	
927-07-1 tert-butyl peroxypivalat	e	
Degradation (Evidence for inhere	nt biodegradability.) (OECD 301 D)	
12.3 Bioaccumulative potential		
· Partition coefficient: nOctanol/	/water: [Log Kow]	
927-07-1 tert-butyl peroxypivalate		3,17 (25°C)
12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and vPvB as	ssessment	
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, ann	
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, ann	ex XIII. (Contd. on page 3

Printing date 03.04.2024

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

Version: 8 (replaces version 7)



Revision: 16.02.2023

Trade name: PEROXAN PPV-25 IBC

	(Contd. of page	
12.6 Endocrine disrupting		
properties	The product does not contain substances with endocrine disrupting properties.	
12.7 Other adverse effects		
Remark: Harmful to fish		
Additional ecological informati		
· General notes:	Harmful to 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 guantities leak into the ground.	
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 spectreatment (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	
Waste disposal key:	system. 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 info	rmation	
14.1 UN number or ID number ADR, IMDG	UN3119	
14.2 UN proper shipping name ADR	UN3119 ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED (PENTAMETHYLHEPTANE), ENVIRONMENTALLY HAZARDOUS	

·IMDG	HAZARDOUS ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED (PENTAMETHYLHEPTANE), MARINE POLLUTANT
· 14.3 Transport hazard class(es)	
ADR	
· Class	5.2 (P2) Organic peroxides.
· Label	5.2
· IMDG	
· Class	5.2 Organic peroxides.
· Label	5.2
· Class	Х
· Label	X
· 14.4 Packing group	
· ADR, IMDG	Void
14.5 Environmental hazards:	
· Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Organic peroxides.
EMS Number:	F-F,S-R
Stowage Category	D
· Stowage Code	SW1 Protected from sources of heat.
	SW3 Shall be transported under temperature control.

Printing date 03.04.2024

Version: 8 (replaces version 7)

PERGAN The Peroxide Company

Revision: 16.02.2023

Trade name: PEROXAN PPV-25 IBC

	(Contd. of page
· Segregation Code	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. SG72 See 7.2.6.3.2.
14.7 Maritime transport in bulk according to IM	IO instruments Not applicable.
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:	+10 °C
Emergency temperature:	+15 °C

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

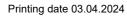
 Directive 2012/18/EU Named dangerous substances ANNEX I Seveso category 	None of the ingredients is listed. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES E2 Hazardous to the Aquatic Environment
Qualifying quantity (tonnes) for the application of lower-tier	
requirements · Qualifying quantity (tonnes) for the application of upper-tier	
requirements REGULATION (EC) No 1907/2006 ANNEX XVII	200 t Conditions of restriction: 3
	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	n drug precursors
None of the ingredients is listed.	
Regulation (EC) No 111/2005 la 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. 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.



Version: 8 (replaces version 7)

Revision: 16.02.2023

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The Peroxide Company

Trade name: PEROXAN PPV-25 IBC

	(Contd. of page 8) H335 May cause respiratory irritation. H411 Toxic to aquatic life with long lasting effects. 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: Abbreviations and acronyms: Abbreviations and acronyms: * Data compared to the previous version altered. 	7 RID: Règlement 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 ELINCCS: European List of Notified Chemical Substances ELINCCS: 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) LCS0: Lethal concentration, 60 percent LDS0: Lethal concentration, 60 percent PBT: Persistent, Bioaccumulative and Toxic VPB: very Persistent, Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Org. Perox. 6: Organic peroxides – Type C/D Org. Perox. 7: Organic peroxides – Type C/D Org. Perox. 7: Organic peroxides – Type E/F Skin Inrit. 2: Skin corrosion/irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4