

# SAFETY DATA SHEET

Based upon Regulation (EC) No. 1907/2006, as amended by Regulation (EC) No. 453/2010

# BCR-293: 2,2',5,5'-tetrachlorobiphenyl

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

## 1.1 Product identifier:

**Product name** : BCR-293: 2,2',5,5'-tetrachlorobiphenyl

Product type REACH : Substance/mono-constituent

 CAS number
 : 35693-99-3

 EC index number
 : 602-039-00-4

 RTECS number
 : DV8660000

 Molecular mass
 : 291.99 g/mol

 Formula
 : C12H6Cl4

## 1.2 Relevant identified uses of the substance or mixture and uses advised against:

Certified reference material for laboratory use only

## 1.3 Details of the supplier of the safety data sheet:

## Supplier of the safety data sheet

Institute for Reference Materials and Measurements

Retieseweg B-2440 Geel Tel: +32 14 57 12 11 Fax: +32 14 59 04 06

JRC-IRMM-RM-Sales@ec.europa.eu

## 1.4 Emergency telephone number:

Poison Centre: +32 70 245 245

# SECTION 2: Hazards identification

# 2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation EC No 1272/2008

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	azard statements	
STOT RE	category 2	H373: May cause damage to organs through prolonged or repeated exposure.	
Aquatic Acute	category 1	H400: Very toxic to aquatic life.	
Aquatic Chronic	category 1	H410: Very toxic to aquatic life with long lasting effects.	

## 2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC

R33 - Danger of cumulative effects.

N; R50-53 - Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

## 2.2 Label elements:

# Labelling according to Regulation EC No 1272/2008 (CLP)





Warning

H-statements

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

P-statements

P260 Do not breathe dust.

P273 Avoid release to the environment.

P314 Get medical advice/attention if you feel unwell.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

Technische Schoolstraat 43 A, B-2440 Geel http://www.big.be

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Reason for revision: 453/2010

Revision number: 0300 Product number: 24065

Publication date: 2002-04-30 Date of revision: 2012-11-26

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P391 Collect spillage.

P501 Dispose of contents/container to manufacturer/competent authority.

#### 2.3 Other hazards:

CLP

Its dust is explosive with air

Dust cloud can be ignited by a spark

Caution! Substance is absorbed through the skin

May have an effect on fertility

May cause harm to breastfed babies

Probably human carcinogenic

Probably hazardous to the foetus

Not readily biodegradable in water

# SECTION 3: Composition/information on ingredients

## 3.1 Substances:

Name (RFACH Registration No)	CAS No EC No	Conc (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
2,2',5,5'-tetrachlorobiphenyl	35693-99-3		N; R50-53	STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(2)(8)	Mono-constituent

- (1) For R-phrases and H-statements in full: see heading 16
- (2) Substance with a Community workplace exposure limit
- (8) Specific concentration limits, see heading 16

#### 3.2 Mixtures:

Not applicable

## SECTION 4: First aid measures

## 4.1 Description of first aid measures:

## General:

If you feel unwell, seek medical advice.

## After inhalation:

Remove the victim into fresh air. Immediately consult a doctor/medical service.

## After skin contact

Wash immediately with lots of water. Do not apply (chemical) neutralizing agents. Consult a doctor/medical service.

## After eye contact:

Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

## After ingestion:

Rinse mouth with water. Give activated charcoal. Victim is fully conscious: immediately induce vomiting. Consult a doctor/medical service if you feel unwell.

## 4.2 Most important symptoms and effects, both acute and delayed:

## 4.2.1 Acute symptoms

SIMILAR PRODUCTS CAUSE FOLLOWING SYMPTOMS:

No specific information available

## After inhalation:

 ${\tt EXPOSURE\ TO\ HIGH\ CONCENTRATIONS:\ Headache.\ Dizziness.\ Feeling\ of\ weakness.\ Nausea.\ Disturbances\ of\ consciousness.}$ 

## After skin contact

Symptoms similar to those listed under inhalation. Symptoms similar to those listed under ingestion.

## After eve contact:

No data available.

## After ingestion:

Skin rash/inflammation. May stain the skin. Discolouration of the (finger)nails. Conjunctivitis. Damp/clammy skin. Feeling of weakness.

## 4.2.2 Delayed symptoms

If applicable and available it will be listed below.

## 4.3 Indication of any immediate medical attention and special treatment needed:

If applicable and available it will be listed below.

# SECTION 5: Firefighting measures

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#### 5.1 Extinguishing media:

#### 5.1.1 Suitable extinguishing media:

Water spray. Alcohol-resistant foam. Carbon dioxide. ABC powder.

#### 5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

## 5.2 Special hazards arising from the substance or mixture:

On heating/burning: release of toxic and corrosive gases/vapours (hydrogen chloride, carbon monoxide - carbon dioxide) and formation of small quantities of dioxin

#### 5.3 Advice for firefighters:

#### 5.3.1 Instructions:

Dilute toxic gases with water spray. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

#### 5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Heat/fire exposure: compressed air/oxygen apparatus.

## SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures:

Prevent dust cloud formation. No naked flames.

#### 6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.

Suitable protective clothing

See heading 8.2

#### 6.2 Environmental precautions:

Contain released substance, pump into suitable containers. Dam up the solid spill. Prevent soil and water pollution. Prevent spreading in sewers.

## 6.3 Methods and material for containment and cleaning up:

Prevent dust cloud formation. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Take collected spill to manufacturer/competent authority. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

## 6.4 Reference to other sections:

See heading 13.

# SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

## 7.1 Precautions for safe handling:

Avoid raising dust. Insufficient ventilation: keep naked flames/sparks away. Keep away from naked flames/heat. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe very strict hygiene - avoid contact. Keep container tightly closed. Remove contaminated clothing immediately. Do not discharge the waste into the drain.

## 7.2 Conditions for safe storage, including any incompatibilities:

## 7.2.1 Safe storage requirements:

Fireproof storeroom. Keep locked up. Unauthorized persons are not admitted. Meet the legal requirements.

## 7.2.2 Keep away from:

Heat sources, ignition sources, oxidizing agents, highly flammable materials.

## 7.2.3 Suitable packaging material:

Glass.

## 7.2.4 Non suitable packaging material:

No data available

## 7.3 Specific end use(s):

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters:

## 8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

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#### UK

Polychlorinated biphenyls (PCB)	Short time value		Workplace exposure limit (EH40/2005)
	Time-weighted average exposure limit 8 h	0.1 mg/m³	Workplace exposure limit (EH40/2005)

## b) National biological limit values

If limit values are applicable and available these will be listed below.

#### 8.1.2 Sampling methods

Product name	Test	Number
No data available		

#### 8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

#### 8.1.4 DNEL/PNEC values

If applicable and available it will be listed below.

## 8.1.5 Control banding

If applicable and available it will be listed below.

## 8.2 Exposure controls:

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

## 8.2.1 Appropriate engineering controls

Avoid raising dust. Insufficient ventilation: keep naked flames/sparks away. Keep away from naked flames/heat. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

#### 8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contact. Keep container tightly closed. Do not eat, drink or smoke during work.

## a) Respiratory protection:

Dust production: dust mask with filter type P3. Combined gas/dust mask with filter type B/P3. High dust production: self-contained breathing apparatus.

## b) Hand protection:

Gloves.

- materials for protective clothing (good resistance)

Butyl rubber, neoprene, viton.

- materials for protective clothing (less resistance)

Nitrile rubber.

- materials for protective clothing (poor resistance)

Natural rubber, polyethylene.

## c) Eye protection:

Safety glasses. In case of dust production: protective goggles.

## d) Skin protection:

Protective clothing. In case of dust production: head/neck protection. In case of dust production: dustproof clothing.

## 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

# SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties:

Physical form	Crystalline solid
	Crystalline powder
Odour	No data available on odour
Odour threshold	No data available
Colour	Colourless
Particle size	No data available
Explosion limits	No data available
Flammability	Not easily combustible
Log Kow	6.09 ; Experimental value
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	86 °C
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available

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Vapour pressure	No data available	
Relative vapour density	Not applicable	
Solubility	water ; < 0.00010 g/100 ml	
	organic solvents ; soluble	
Relative density	No data available	
Decomposition temperature	No data available	
Auto-ignition temperature	No data available	
Explosive properties	No chemical group associated with explosive properties	
Oxidising properties	No chemical group associated with oxidising properties	
рН	No data available	

#### **Physical hazards**

No physical hazard class

## 9.2 Other information:

No data available

# SECTION 10: Stability and reactivity

## 10.1 Reactivity:

Heating increases the fire hazard.

## 10.2 Chemical stability:

No data available.

## 10.3 Possibility of hazardous reactions:

No data available.

#### 10.4 Conditions to avoid:

Avoid raising dust. Insufficient ventilation: keep naked flames/sparks away. Keep away from naked flames/heat. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks.

## 10.5 Incompatible materials:

Oxidizing agents, highly flammable materials.

## 10.6 Hazardous decomposition products:

On heating/burning: release of toxic and corrosive gases/vapours (hydrogen chloride, carbon monoxide - carbon dioxide) and formation of small quantities of dioxin.

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects:

11.1.1 Test results

## **Acute toxicity**

BCR-293: 2,2',5,5'-tetrachlorobiphenyl

No (test)data available

## Corrosion/irritation

BCR-293: 2,2',5,5'-tetrachlorobiphenyl

No (test)data available

## Respiratory or skin sensitisation

BCR-293: 2,2',5,5'-tetrachlorobiphenyl

No (test)data available

## Specific target organ toxicity

BCR-293: 2,2',5,5'-tetrachlorobiphenyl

No (test)data available

## Conclusion

May cause damage to organs through prolonged or repeated exposure.

## Mutagenicity (in vitro)

BCR-293: 2,2',5,5'-tetrachlorobiphenyl

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No (test)data available

#### Mutagenicity (in vivo)

BCR-293: 2,2',5,5'-tetrachlorobiphenyl

No (test)data available

#### Carcinogenicity

BCR-293: 2,2',5,5'-tetrachlorobiphenyl

No (test)data available

## Reproductive toxicity

BCR-293: 2,2',5,5'-tetrachlorobiphenyl

No (test)data available

## **Toxicity other effects**

BCR-293: 2,2',5,5'-tetrachlorobiphenyl

No (test)data available

#### Chronic effects from short and long-term exposure

#### BCR-293: 2,2',5,5'-tetrachlorobiphenyl

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry/sore throat. Skin rash/inflammation. May stain the skin. Discolouration of the (finger)nails. Conjunctivitis. Inflammation/damage of the eye tissue. Gastrointestinal complaints. Headache. Dizziness. Nausea. Impaired memory. Change in the haemogramme/blood composition. Enlargement/affection of the liver.

## 11.1.2 Other information

BCR-293: 2,2',5,5'-tetrachlorobiphenyl

IARC - classification 2A

# **SECTION 12: Ecological information**

## 12.1 Toxicity:

BCR-293: 2,2',5,5'-tetrachlorobiphenyl

	Parameter	Method	Value	Duration	Species	 Fresh/salt water	Value determination
Acute toxicity fishes	LC50		>0.03 mg/l	_	Pimephales promelas		
Acute toxicity invertebrates	LC50		>0.03 mg/l	48 h	Daphnia magna		

## Conclusion

Highly toxic to aquatic organisms

## 12.2 Persistence and degradability:

May cause long-term adverse effects in the aquatic environment

Not readily biodegradable in water

## 12.3 Bioaccumulative potential:

BCR-293: 2,2',5,5'-tetrachlorobiphenyl

## **BCF** fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		200000	XXX h	Salmo gairdneri (Oncorhynchus mykiss)	

## Log Kow

Method	Remark	Value	Temperature	Value determination
		6.09		Experimental value

## Conclusion

High potential for bioaccumulation (BCF > 5000)

## 12.4 Mobility in soil:

No (test)data on mobility of the substance available

# 12.5 Results of PBT and vPvB assessment:

Due to insufficient data no statement can be made whether the substance fulfils the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

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## 12.6 Other adverse effects:

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Global warming potential (GWP)

Not included in the list of substances which may contribute to the greenhouse effect (Regulation (EC) No 842/2006)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

# **SECTION 13: Disposal considerations**

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

## 13.1 Waste treatment methods:

## 13.1.1 Provisions relating to waste

Waste material code (Directive 2008/98/EC, decision 2000/0532/EC).

16 05 06\* (laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals). Depending on branch of industry and production process, also other EURAL codes may be applicable. Hazardous waste according to Directive 2008/98/EC.

## 13.1.2 Disposal methods

Dissolve or mix with a combustible solvent. Disposal in high-temperature incinerator (> 1200 °C) with energy recovery. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

## 13.1.3 Packaging/Container

Road (ADR)

Waste material code packaging (Directive 2008/98/EC).

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

# SECTION 14: Transport information

au (ADR)	
14.1 UN number:	
UN number	3432
14.2 UN proper shipping name:	
Proper shipping name	Polychlorinated biphenyls, solid
14.3 Transport hazard class(es):	
Hazard identification number	90
Class	9
Classification code	M2
14.4 Packing group:	
Packing group	
Labels	9
14.5 Environmental hazards:	
Environmentally hazardous substance mark	yes
14.6 Special precautions for user:	
Special provisions	305
Special provisions	303
Limited quantities	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)
Limited quantities	Combination packagings: not more than 1 kg per inner packaging for
	Combination packagings: not more than 1 kg per inner packaging for
Limited quantities  I (RID)	Combination packagings: not more than 1 kg per inner packaging for
Limited quantities  I (RID)  14.1 UN number:	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)
Limited quantities  I (RID)  14.1 UN number:  UN number	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)
Limited quantities  I (RID)  14.1 UN number:  UN number  14.2 UN proper shipping name:	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)  3432
Limited quantities  I (RID)  14.1 UN number:  UN number  14.2 UN proper shipping name:  Proper shipping name	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)  3432
Limited quantities  I (RID)  14.1 UN number:  UN number  14.2 UN proper shipping name:  Proper shipping name  14.3 Transport hazard class(es):	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)  3432  Polychlorinated biphenyls, solid
Limited quantities  I (RID)  14.1 UN number:  UN number  14.2 UN proper shipping name:  Proper shipping name  14.3 Transport hazard class(es):  Hazard identification number	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)  3432  Polychlorinated biphenyls, solid
Limited quantities  I (RID)  14.1 UN number:  UN number  14.2 UN proper shipping name:  Proper shipping name  14.3 Transport hazard class(es):  Hazard identification number  Class	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)  3432  Polychlorinated biphenyls, solid  90 9
Limited quantities  I (RID)  14.1 UN number:  UN number  14.2 UN proper shipping name:  Proper shipping name  14.3 Transport hazard class(es):  Hazard identification number  Class  Classification code  14.4 Packing group:	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)  3432  Polychlorinated biphenyls, solid  90 9
Limited quantities  I (RID)  14.1 UN number:  UN number  14.2 UN proper shipping name:  Proper shipping name  14.3 Transport hazard class(es):  Hazard identification number  Class  Classification code	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)  3432  Polychlorinated biphenyls, solid  90 9 M2
Limited quantities  I (RID)  14.1 UN number:  UN number  14.2 UN proper shipping name:  Proper shipping name  14.3 Transport hazard class(es):  Hazard identification number  Class  Classification code  14.4 Packing group:  Packing group	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)  3432  Polychlorinated biphenyls, solid  90 9 M2
Limited quantities  I (RID)  14.1 UN number:  UN number  14.2 UN proper shipping name:  Proper shipping name  14.3 Transport hazard class(es):  Hazard identification number  Class  Classification code  14.4 Packing group:  Packing group  Labels	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)  3432  Polychlorinated biphenyls, solid  90 9 M2
Limited quantities  I (RID)  14.1 UN number:  UN number  14.2 UN proper shipping name:  Proper shipping name  14.3 Transport hazard class(es):  Hazard identification number  Class  Classification code  14.4 Packing group:  Packing group  Labels  14.5 Environmental hazards:	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)  3432  Polychlorinated biphenyls, solid  90 9 M2

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Limited quantities	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)
nd waterways (ADN)	
4.1 UN number:	
UN number	3432
4.2 UN proper shipping name:	
Proper shipping name	Polychlorinated biphenyls, solid
1.3 Transport hazard class(es):	
Class	9
Classification code	M2
1.4 Packing group:	<u> </u>
Packing group	II .
Labels	9
J.5 Environmental hazards:	<u> </u>
Environmentally hazardous substance mark	yes
.6 Special precautions for user:	i·
Special provisions	305
Special provisions	802
Limited quantities	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)
IMDC)	
IMDG)	
.1 UN number: UN number	2422
	3432
.2 UN proper shipping name:	
Proper shipping name	Polychlorinated biphenyls, solid
.3 Transport hazard class(es):	
Class	9
.4 Packing group:	
Packing group	
Labels	9
I.5 Environmental hazards:	
Marine pollutant	P
Environmentally hazardous substance mark	yes
I.6 Special precautions for user:	
Special provisions	305
Special provisions	958
Limited quantities	Combination packagings: not more than 1 kg per inner packaging for solids. A package shall not weigh more than 30 kg. (gross mass)
7.7 Transport in bulk according to Annex II of MARPOL 73/78 and the I	
Annex II of MARPOL 73/78	Not applicable, based on available data
CAO-TI/IATA-DGR)	
.1 UN number:	
UN number	3432
.2 UN proper shipping name:	<del></del>
Proper shipping name	Polychlorinated biphenyls, solid
.3 Transport hazard class(es):	-
Class	9
.4 Packing group:	
	II
Packing group	9
Packing group  Labels	
Labels	<u> </u>
Labels .5 Environmental hazards:	ves
Labels  1.5 Environmental hazards:  Environmentally hazardous substance mark	yes
Labels  1.5 Environmental hazards:  Environmentally hazardous substance mark  1.6 Special precautions for user:	
Labels .5 Environmental hazards: Environmentally hazardous substance mark .6 Special precautions for user: Special provisions	A11
Labels  1.5 Environmental hazards:  Environmentally hazardous substance mark  1.6 Special precautions for user:	A11

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

## **European legislation:**

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Volatile organic compounds (VOC)

0%

Persistent organic pollutants (POPs)

Listed in Annex IV of Regulation (EC) No 850/2004: List of substances subject to waste management provisions set out in article 7

Listed in Annex I of Regulation (EC) No 850/2004: Part A - Substances listed in the Convention and in the Protocol as well as substances listed only in the Convention

Listed in Annex III of Regulation (EC) No 850/2004: List of substances subject to release reduction provisions

#### 15.2 Chemical safety assessment:

No chemical safety assessment has been conducted.

## SECTION 16: Other information

#### Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

Labelling in accordance with 29th adaptation of EC directive 67/548/EEC

#### Labels



Dangerous for the environment

#### R-phrases

33 Danger of cumulative effects

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

#### S-phrases

(02) (Keep out of the reach of children)

35 This material and its container must be disposed of in a safe way

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

Avoid release to the environment. Refer to special instructions/safety data sheets.

## Full text of any R-phrases referred to under headings 2 and 3:

R33 Danger of cumulative effects

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R50 Very toxic to aquatic organisms

R53 May cause long-term adverse effects in the aquatic environment

## Full text of any H-statements referred to under headings 2 and 3:

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

(\*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive
DPD Dangerous Preparation Directive

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

## Specific concentration limits CLP

2,2',5,5'-tetrachlorobiphenyl	C => 0.005 %	STOT RE 2; H373

## Specific concentration limits DSD

2,2',5,5'-tetrachlorobiphenyl	C >= 25 %	N;R 33-50/53
	2,5 % <= C < 25 %	N;R 33-51/53
	0,25 % <= C < 2,5 %	R 33-52/53
	0,005 % <= C < 0,25 %	R 33

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