

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:
Product type REACH	: Substance
CAS number	: 35693-99
EC index number	: 602-039-0
RTECS number	: DV866000
Molecular mass	: 291.99 g/
Formula	: C12H6Cl4

2,2',5,5'-tetrachlorobiphenyl

- e/mono-constituent
-)-3 00-4
 - 00
- /mol

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 danger	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	410: 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)

Signal word	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: Brandweerinformation	ecentrum voor gevaarlijke stoffen vzw (BIG)	Publication date: 2002-04-30	en
Technische Schoolstraat 43 A, B-	2440 Geel	Date of revision: 2012-11-26	-348
http://www.big.be © BIG vzw		Reference number: BCR-293	15765-348-en

Product number: 24065

134-

P391 P501 Collect spillage. 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:

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 eye 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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Revision number: 0300

UK				
Polychlorinated biphenyls (PCB)	Short time value			Workplace exposure limit (EH40/20
	Time-weighted ave	rage exposure limit 8 h	0.1 mg/m ³	Workplace exposure limit (EH40/20
b) National biological limit values				
If limit values are applicable and avail	able these will be listed	below.		
.1.2 Sampling methods		L .		
Product name No data available		Test	Number	
.1.3 Applicable limit values when using	the substance or mixtu	re as intended		
If limit values are applicable and avail				
.1.4 DNEL/PNEC values	able these will be listed	below.		
If applicable and available it will be lis	ted below.			
.1.5 Control banding				
If applicable and available it will be lis	ted below.			
Exposure controls:				
•	description If applicat	hle and available expos	ure scenarios are attach	ed in annex. Always use the relevant expo
cenarios that correspond to your identif				
.2.1 Appropriate engineering controls				
-	from ignition sources/s		•	at. Finely divided: spark- and explosionpr larly. Carry operations in the open/under
.2.2 Individual protection measures, su	ch as personal protectiv	• •	drink or smoke during y	lork
Observe very strict hygiene - avoid co) Respiratory protection:	mact. Reep container th	Brity closed. Do not eat	white or shoke during v	JOIN.
	type P3 Combined gas	/dust mask with filter ty	ne B/P3 High dust prod	uction: self-contained breathing apparatu
) Hand protection:	type i 5. combined gas		pe b/i 5. mgn dust prou	
Gloves.				
materials for protective clothing (good r	esistance)			
Butyl rubber, neoprene, viton.				
materials for protective clothing (less re	sistance)			
Nitrile rubber.				
materials for protective clothing (poor r	esistance)			
Natural rubber, polyethylene.				
) Eye protection:				
Safety glasses. In case of dust product	ion: protective goggles.			
<u>) Skin protection:</u> Protective clothing. In case of dust pr	duction: head/neck pro	stection. In case of dust	production: dustproof c	othing
riolective clothing. In case of dust pr				ottinig.
.2.3 Environmental exposure controls:				
.2.3 Environmental exposure controls:	nical properti	es		
.2.3 Environmental exposure controls: See headings 6.2, 6.3 and 13				
.2.3 Environmental exposure controls: See headings 6.2, 6.3 and 13 ON 9: Physical and cher		rties:		
.2.3 Environmental exposure controls: See headings 6.2, 6.3 and 13 ON 9: Physical and cher Information on basic physical a	nd chemical prope	r ties: olid		
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2.3 Environmental exposure controls: See headings 6.2, 6.3 and 13 ON 9: Physical and cher Information on basic physical and Physical form Odour Odour threshold Colour Particle size Explosion limits Flammability	nd chemical proper Crystalline s Crystalline p No data ava No data ava Colourless No data ava No data ava No data ava	rties: olid powder ilable on odour ilable ilable ilable pombustible		
2.3 Environmental exposure controls: See headings 6.2, 6.3 and 13 ON 9: Physical and cher Information on basic physical and Physical form Odour Odour threshold Colour Particle size Explosion limits Flammability Log Kow	nd chemical proper Crystalline p No data ava No data ava Colourless No data ava No data ava No data ava No data ava No data ava Not easily co 6.09 ; Exper	rties: olid bowder ilable on odour ilable ilable ilable ilable imbustible imental value		
.2.3 Environmental exposure controls: See headings 6.2, 6.3 and 13 ON 9: Physical and cher Information on basic physical and Physical form Odour Odour Odour threshold Colour Particle size Explosion limits Flammability Log Kow Dynamic viscosity	nd chemical proper Crystalline p No data ava No data ava Colourless No data ava No data ava No data ava No data ava No data ava No teasily co 6.09 ; Exper No data ava	rties: olid bowder ilable on odour ilable ilable ilable pombustible imental value ilable		
2.3 Environmental exposure controls: See headings 6.2, 6.3 and 13 ON 9: Physical and cher Information on basic physical and Physical form Odour Odour Odour threshold Colour Particle size Explosion limits Flammability Log Kow Dynamic viscosity Kinematic viscosity	nd chemical proper Crystalline s Crystalline p No data ava Colourless No data ava No data ava No data ava Not easily co 6.09 ; Exper No data ava No data ava	rties: olid bowder ilable on odour ilable ilable ilable pombustible imental value ilable		
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SI

No data available	
Not applicable	
water ; < 0.00010 g/100 ml	
organic solvents ; soluble	
No data available	
No data available	
No data available	
No chemical group associated with explosive properties	
No chemical group associated with oxidising properties	
No data available	
	Not applicable water ; < 0.00010 g/100 ml

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

<u>BCR-293: 2,2',5,5'-tetrachlorobiphenyl</u> No (test)data available

Corrosion/irritation

<u>BCR-293: 2,2',5,5'-tetrachlorobiphenyl</u> No (test)data available

Respiratory or skin sensitisation

<u>BCR-293: 2,2',5,5'-tetrachlorobiphenyl</u> 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

<u>BCR-293: 2,2',5,5'-tetrachlorobiphenyl</u> 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

SECTION 12: Ecological information

2A

12.1 Toxicity:

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

	Parameter	Method	Value	Duration	Species	 Fresh/salt water	Value determination
Acute toxicity fishes	LC50	6	>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	(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

Waste material code packaging (Directive 2008/98/EC). 15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

ad (ADR)		
14.1 UN number:		
UN number	3432	
14.2 UN proper shipping name:		
Proper shipping name	Polychlorinated biphenyl	ls, solid
14.3 Transport hazard class(es):		
Hazard identification number	90	
Class	9	
Classification code	M2	
14.4 Packing group:		
Packing group	1	8
Labels	9	F
14.5 Environmental hazards:		
Environmentally hazardous substance mark	yes	
14.6 Special precautions for user:		
Special provisions	305	
Limited quantities		: not more than 1 kg per inner packaging for ot weigh more than 30 kg. (gross mass)

Rail (RID)

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	П	
Labels	9	
14.5 Environmental hazards:		
Environmentally hazardous substance mark	yes	
14.6 Special precautions for user:		
Special provisions	305	
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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)		
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
		solids. A package shall not weigh more than 30 kg. (gross mass)

Inland waterways (ADN)

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):	
Class	9
Classification code	M2
14.4 Packing group:	
Packing group	11
Labels	9
14.5 Environmental hazards:	
Environmentally hazardous substance mark	yes
14.6 Special precautions for user:	
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)

Sea (IMDG)

I4.1 UN number:		
UN number	3432	
4.2 UN proper shipping name:		
Proper shipping name	Polychlorinated biphenyls, solid	
4.3 Transport hazard class(es):		
Class	9	
4.4 Packing group:		
Packing group		
Labels	9	
4.5 Environmental hazards:		
Marine pollutant	р	
Environmentally hazardous substance mark	yes	
4.6 Special precautions for user:		
Special provisions	305	
Special provisions	958 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		
14.7 Transport in bulk according to Annex II of MARPOL 73/78	and the IBC Code:	
Annex II of MARPOL 73/78	Not applicable, based on available data	

Air (ICAO-TI/IATA-DGR)

4.1 UN number:	
UN number	3432
4.2 UN proper shipping name:	•
Proper shipping name	Polychlorinated biphenyls, solid
4.3 Transport hazard class(es):	•
Class	9
4.4 Packing group:	•
Packing group	II
Labels	9
4.5 Environmental hazards:	•
Environmentally hazardous substance mark	yes
4.6 Special precautions for user:	
Special provisions	A11
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	Forbidden

SECTION 15: Regulatory information

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.

SEC

TION 16: Ot	her information		
-	ng to Directive 67/548/EEC-1999/45/EC (DSD/DPD) coordance with 29th adaptation of EC directive 67/548/EEC		
environ	ment		
R-phrases			
33	Danger of cumulative effects		
50/53	Very toxic to aquatic organisms, may cause long-tern	n adverse effects in the aquatic environn	nent
S-phrases			
(02)	(Keep out of the reach of children)		
35	This material and its container must be disposed of ir		
60	This material and its container must be disposed of a		
61	Avoid release to the environment. Refer to special in	structions/safety data sheets.	
-	-phrases referred to under headings 2 and 3:		
R50/53 Very R50 Very tox	of cumulative effects toxic to aquatic organisms, may cause long-term adverse e ic to aquatic organisms se long-term adverse effects in the aquatic environment	ffects in the aquatic environment	
	-statements referred to under headings 2 and 3:		
H400 Very to H410 Very to	use damage to organs through prolonged or repeated expo xxic to aquatic life. xxic to aquatic life with long lasting effects. L CLASSIFICATION BY BIG	osure.	
PBT-substance	es = persistent, bioaccumulative and toxic substances		
DSD DPD CLP (EU-GHS)	Dangerous Substance Directive Dangerous Preparation Directive Classification, labelling and packaging (Globally Harmonis	sed System in Europe)	
Specific concentra	ation limits CLP		
2,2',5,5'-tetra	chlorobiphenyl	C => 0.005 %	STOT RE 2; H373
Specific concentra	ation limits DSD		
·	chlorobiphenyl	C >= 25 %	N;R 33-50/53
2,2,3,3-10110		C >= 23 % 2.5 % <= C < 25 %	N;R 33-51/53
			N,R 55-51/55

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0,25 % <= C < 2,5 %

0,005 % <= C < 0,25 %

R 33-52/53

R 33

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