

Justification for the selection of a candidate CoRAP substance

Substance Name (Public Name):	bis(4-chlorophenyl) sulphone
Chemical Group:	---
EC Number:	201-247-9
CAS Number:	80-07-9
Submitted by:	Environment Agency Austria on behalf of the Austrian Competent Authority (Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management)
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NOTE

This document has been prepared by the evaluating Member State given in the CoRAP update.

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1 IDENTITY OF THE SUBSTANCE

1.1 Name and other identifiers of the substance

The name used by the registrant and applied in this document is 4,4'-dichlorodiphenyl sulphone (DCDPS).

Table 1: Substance identity

Public Name:	bis(4-chlorophenyl) sulphone
EC number:	201-247-9
EC name:	Bis(4-chlorophenyl) sulphone
CAS number (in the EC inventory):	80-07-9
CAS number:	80-07-9
CAS name:	Sulfone, bis(p-Chlorophenyl)
IUPAC name:	1-chloro-4-(4chlorophenyl)sulfonylbenzene
Index number in Annex VI of the CLP Regulation	---
Molecular formula:	C ₁₂ H ₈ Cl ₂ O ₂ S
Molecular weight or molecular weight range:	287.1617
Synonyms:	<p><i>Common abbreviation: DCDPS</i> BENZENE, 1,1'-SULFONYLBIS(4-CHLORO-; SULFONE, BIS(P-CHLOROPHENYL); 1,1'-SULFONYLBIS(4-CHLOROBENZENE); BIS(P-CHLOROPHENYL) SULFONE; BIS(PARA-CHLOROPHENYL) SULFONE; BIS(4-CHLOROPHENYL) SULFONE; SULFONE, BIS(PARA-CHLOROPHENYL); DI-PARA-CHLOROPHENYL SULFONE; P,P'-DICHLORODIPHENYL SULFONE; 4,4'-DICHLORODIPHENYL SULFONE; Benzene, 1,1'-sulfonylbis[4-chloro- (9CI); Sulfone, bis(p-chlorophenyl) (6CI, 8CI); 4-Chloro-1-(4-chlorophenylsulfonyl)benzene; 4-Chlorophenyl sulfone; Di-p-chlorophenyl sulfone; p-Chlorophenyl sulfone</p>

Type of substance



Mono-constituent

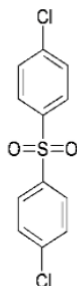


Multi-constituent



UVCB

Structural formula:



2 CLASSIFICATION AND LABELLING

2.1 Harmonised Classification in Annex VI of the CLP

Not classified.

2.2 Proposal for Harmonised Classification in Annex VI of the CLP

Not classified.

2.3 Self classification

In the registration data the following self classification is given:

According to **CLP** criteria:

Eye Irrit. 2; H319: Causes serious eye irritation.

Aquatic chronic 4; H413: May cause long lasting harmful effects to aquatic life.

According to **DSD** criteria:

Xi; R36 Irritating to eyes.

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

C&L inventory additionally includes the following classifications:

STOT RE 2; H373: May cause damage to organs through prolonged or repeated exposure.

Aquatic Acute 1; H400: very toxic to aquatic life.

Aquatic Chronic 1; H410: very toxic to aquatic life with long lasting effects.

Aquatic Chronic 2; H411: toxic to aquatic life with long lasting effects.

3 JUSTIFICATION FOR THE SELECTION OF THE CANDIDATE CoRAP SUBSTANCE

3.1 Legal basis for the proposal

- Article 44(1) (refined prioritisation criteria for substance evaluation)
- Article 45(5) (Member State priority)

3.2 Grounds for concern

<input type="checkbox"/> (Suspected) CMR	<input checked="" type="checkbox"/> Wide dispersive use	<input type="checkbox"/> Cumulative exposure
<input type="checkbox"/> (Suspected) Sensitiser	<input type="checkbox"/> Consumer use	<input type="checkbox"/> High RCR
<input checked="" type="checkbox"/> (Suspected) PBT	<input type="checkbox"/> Exposure of sensitive populations	<input checked="" type="checkbox"/> Aggregated tonnage
<input type="checkbox"/> Suspected endocrine disruptor	<input type="checkbox"/> Other (provide further details below)	

P-criterion: The substance was concluded to be not readily biodegradable. Further information is needed, testing proposal and results from the simulation test have to be evaluated.

B-criterion: The aquatic bioaccumulation potential is low, nevertheless there are concerns regarding terrestrial bioaccumulation potential. There is a need for further investigation and evaluation. Monitoring data for environment and biota are available and need to be considered.

T-criterion: Available acute measurements indicate no effects at the saturation level. Chronic effects were observed for daphnids. The T-criterion is not fulfilled based on these findings. Nevertheless, as there is a testing proposal for human health, no conclusion on the T criterion is possible at this stage.

Metabolites: No information on identity, toxicity and fate & behaviour is available and needed.

3.3 Information on aggregated tonnage and uses

<input type="checkbox"/> 1 – 10 tpa	<input type="checkbox"/> 10 – 100 tpa	<input type="checkbox"/> 100 – 1000 tpa
<input type="checkbox"/> 1000 – 10,000 tpa	<input checked="" type="checkbox"/> 10,000 – 100,000 tpa	
<input type="checkbox"/> 100,000 – 1,000,000 tpa	<input type="checkbox"/> > 1000,000 tpa	
<input type="checkbox"/> Confidential		

<input checked="" type="checkbox"/> Industrial use	<input type="checkbox"/> Professional use	<input type="checkbox"/> Consumer use	<input type="checkbox"/> Closed System
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Identified uses: Information on uses

1) Manufacture

Process category

PROC 1: Use in closed process, no likelihood of exposure
 PROC 3: Use in closed batch process (synthesis or formulation)
 PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises
 PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

Environmental release category ERC 1: Manufacture of substances

Uses at Industrial Sites

2) polymerization processes

Process category

PROC 1: Use in closed process, no likelihood of exposure
 PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
 PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
 PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
 PROC 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation

Environmental release category

ERC 6c: Industrial use of monomers for manufacture of thermoplastics
 ERC 6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers
 ERC 3: Formulation in materials

Substance supplied to that use in form of: As such

Chemical product category: PC 19: Intermediate

Sector of end use

SU 11: Manufacture of rubber products
 SU 9: Manufacture of fine chemicals

Subsequent service life relevant for that use? Yes

3) Intermediates

Process category

PROC 1: Use in closed process, no likelihood of exposure

PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

Environmental release category

ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)

Substance supplied to that use in form of: As such

Chemical product category: PC 19: Intermediate

Sector of end use: SU 9: Manufacture of fine chemicals

Subsequent service life relevant for that use? No

4) Polymerization of the substance

Process category

PROC 1: Use in closed process, no likelihood of exposure

PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

Environmental release category

ERC 6c: Industrial use of monomers for manufacture of thermoplastics

Substance supplied to that use in form of: As such

Chemical product category: PC 19: Intermediate

Sector of end use

SU 12: Manufacture of plastics products, including compounding and conversion

Subsequent service life relevant for that use? no

3.4 Other completed/ongoing regulatory processes that may affect suitability for substance evaluation

<input type="checkbox"/> Compliance check	<input type="checkbox"/> Dangerous substances Directive 67/548/EEC
<input checked="" type="checkbox"/> Testing proposal	<input type="checkbox"/> Existing Substances Regulation 793/93/EEC
<input type="checkbox"/> Annex VI (CLP)	<input type="checkbox"/> Plant Protection Products Regulation 91/414/EEC
<input type="checkbox"/> Annex XV (SVHC)	<input type="checkbox"/> Biocidal Products Directive 98/8/EEC
<input type="checkbox"/> Annex XIV (Authorisation)	<input type="checkbox"/> Other (provide further details below)
<input type="checkbox"/> Annex XVII (Restriction)	
<p>There are testing proposals for the following end points;</p> <p>TEP 1: 5.2.2 Biodegr. in water and sediment. TPE 2: 5.3.2 Bioacc. Terrestrial. TPE 3: 6.2 Sediment toxicity. TPE 4: 7.8.2 Develop. Tox. / teratogen.</p>	

3.5 Information to be requested to clarify the suspected risk

<input type="checkbox"/> Information on toxicological properties	<input type="checkbox"/> Information on physico-chemical properties
<input checked="" type="checkbox"/> Information on fate and behaviour	<input checked="" type="checkbox"/> Information on exposure
<input checked="" type="checkbox"/> Information on ecotoxicological properties	<input type="checkbox"/> Information on uses
<input checked="" type="checkbox"/> Other (provide further details below)	
<p>Other: Information on metabolites</p>	

3.6 Potential follow-up and link to risk management

<input checked="" type="checkbox"/> Restriction	<input checked="" type="checkbox"/> Harmonised C&L	<input checked="" type="checkbox"/> Authorisation	<input type="checkbox"/> Other (provide further details)