

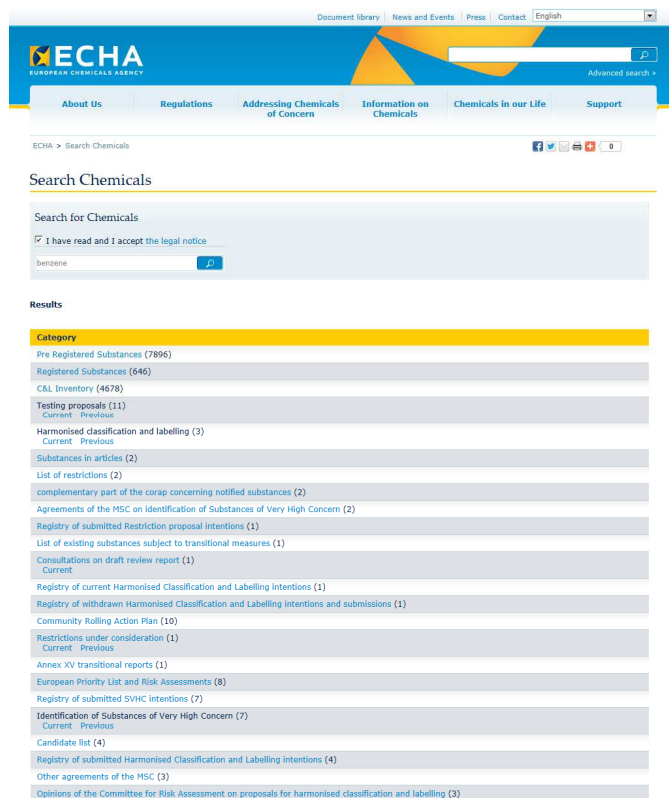
ECHA's Dissemination website

Infocard & Brief Profiles Overview

03 December 2013

Eoin BRENNAN

The Future...



Document library | News and Events | Press | Contact | English

ECHA
EUROPEAN CHEMICALS AGENCY

About Us | Regulations | Addressing Chemicals of Concern | Information on Chemicals | Chemicals in our Life | Support

ECHA > Search Chemicals

Search Chemicals

Search for Chemicals

I have read and I accept the legal notice

benzene

Results

Category

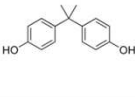
- Pre Registered Substances (7895)
- Registered Substances (646)
- CL Inventory (4678)
- Testing proposals (11)
- Harmonised classification and labelling (3)
- Substances in articles (2)
- List of restrictions (2)
- complementary part of the corap concerning notified substances (2)
- Agreements of the MSC on Identification of Substances of Very High Concern (2)
- Registry of submitted Restriction proposal intentions (1)
- List of existing substances subject to transitional measures (1)
- Consultations on draft review report (1)
- Registry of current Harmonised Classification and Labelling Intentions (1)
- Registry of withdrawn Harmonised Classification and Labelling Intentions and submissions (1)
- Community Rolling Action Plan (10)
- Restrictions under consideration (1)
- Annex XV transitional reports (1)
- European Priority List and Risk Assessments (8)
- Registry of submitted SVHC Intentions (7)
- Identification of Substances of Very High Concern (7)
- Candidate list (4)
- Registry of submitted Harmonised Classification and Labelling intentions (4)
- Other agreements of the MSC (3)
- Opinions of the Committee for Risk Assessment on proposals for harmonised classification and labelling (3)



4,4'-isopropylidenediphenol (BPA) Brief Profile – last updated 18/09/2013

2,2-bis(4-hydroxyphenyl)propane; 2,2-di(4-hydroxyphenyl)propane; 4,4'-isopropylidenediphenol; Biphenol A; Bisferol A; BPA; C066780; DIAN; Ipo9nox 88; ...

Substance Identity



EC Number 201-245-8
EC Name 4,4'-isopropylidenediphenol
CAS Number 80-05-7
Molecular Formula C15H16O2
IUPAC Name 2,2-bis(4-hydroxyphenyl)propane

Smiles O=C1C(C)(C)C(C1)C2=CC=C(O)C=C2
InChI 1S/C15H16O2/c1-15(2,11-9,7-13)(6,8-4-1)12-9-9:14(17)10-6-12/N:3-10,16-17M,1-2H3

Type of Substance Mono constituent substance
Origin Organic
Estimated tonnage 1,000,000+ per year made or imported in all EEA

Compositions 7
Impurities relevant for classification Yes (2)
Additives relevant for classification No
Substance Listed EINECS

Safety Classification & Labelling

Harmonised Classification & Labelling

Notified Classification & Labelling

Warning! This substance can be very hazardous. This substance causes serious eye damage, is suspected of damaging fertility, may cause respiratory irritation, may cause an allergic skin reaction.

Notified Classification & Labelling

Warning! This substance can be very hazardous. This substance causes serious eye damage, is suspected of damaging fertility or the unborn child, may cause an allergic skin reaction, may cause respiratory irritation.

Breakdown of notifications

No. of notifiers 10 256
 Different classifications notified 23
 Notifiers failing to agree with harmonised CL 2 486 (24%)
 Hazard Codes notified 7

Concerns & Regulations / Regulatory Action on this substance

Concerns & Summary

This is a **substance of very high concern** due to its suspected damage to fertility, its widespread usage and its high volume of production. This substance is being evaluated by Germany under the **CoRAP** programme. It is a candidate for **restriction** for use in thermal papers. It has been analysed and a **harmonised classification** assigned.

Registration, Evaluation, Authorisation & Restriction of Chemicals (REACH)

- Pre-registration: Initiation by companies that the substance should be registered. [More](#)
- Registration: Submission of dossier of information on a substance. [More](#)
- Dossier Evaluation: Checking by ECHA that dossier submitted is complete. [More](#)
- Substance Evaluation (CoRAP Plan): Evaluation by member states performed on all data for a substance. [More](#)
- Authorisation: Authorisation process for substances of very high concern. [More](#)
- Restriction: Restriction / phasing out of chemical substances. [More](#)

Classification & Labelling

This substance has been analysed and a **harmonised classification** assigned. [More](#)

Biocides Regulation

This substance is not a **Biocidal Active Substance** and is not used as an ingredient in **Biocidal Products** and hence does not fall under the Biocides regulation.

Prior Informed Consent (PIC)

This substance is not a hazardous chemical whose export is covered by the **Rotterdam Convention** and hence it does not fall under the PIC regulation.

About this substance

Product Categories

This substance can be found or is used in products such as an intermediate step in further manufacturing, coatings, paints, paint thinners & removers, fillers, putties, plasters, modelling clay, adhesives, sealants, polymers.

Sectors of use

This substance is used in fields such as plastic product manufacture, mixing and/or re-packaging, computer, electrical, electronic and optical product manufacture, building & construction work, manufacture of machinery, equipment, vehicles & other transport equipment, pulp, paper and paper product manufacture, electricity, steam, gas, water supply and sewage treatment, rubber product manufacture.

Processes in which used

This substance is used during processes such as transfer (large), at dedicated facilities, closed batch processing, closed process with occasional exposure, transfer (small), batch processing, batch and other processing, production by tabletting, compression, extrusion or pelletisation, roller or brush application, treatment by dipping and pumping, transfer (large), non-dedicated facilities.

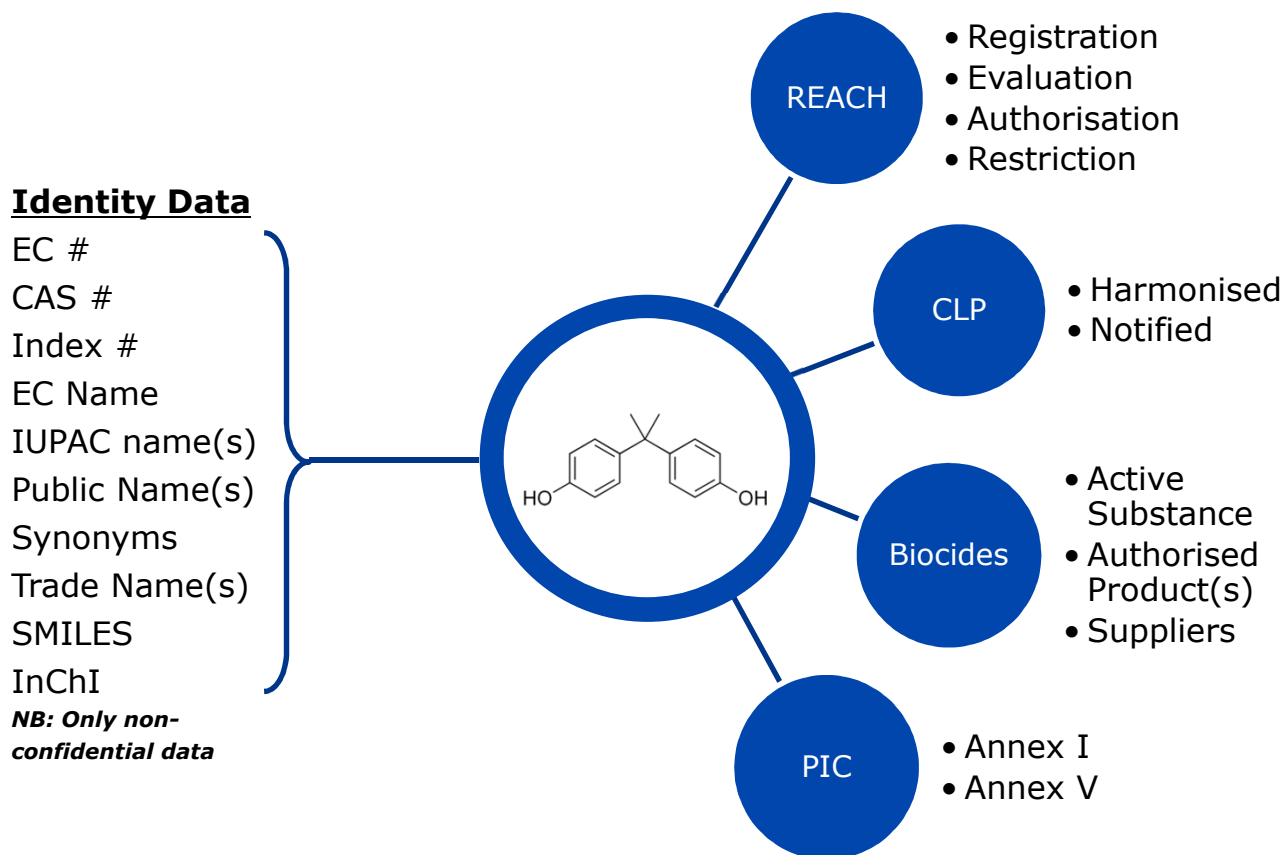
Environmental Release & Exposure

Exposure to this substance is most likely to occur via indoor use in long-life articles with low release, industrial use (in finished products), formulation, outdoor use in long-life articles with low release, industrial use as an intermediate step in further manufacturing, formulation, indoor use resulting in spreading of the substance, outdoor use resulting in spreading of the substance, manufacturing, industrial use for thermoplastic manufacture.

Physical & Chemical Properties

Property	Value	Assess	SLDs
Physical State (20°C, 1 atm)	Solid	0.125	0.002
Form	Crystals		
Colour	White		
Odour	Odourless		
Substance Type	Organic		
Melting / Freezing Point	22°C / 1.2°C		
Boiling Point	105°C / 3.6°C		
Density	2.03 / 0.02		
Particle size distribution	2.4 - 5.0µm / 0.1 - 0.7µm		
Vapour pressure	21 - 25 mBar / 2 - 3 mBar		
Partition Coefficient			
Water Solubility	12g/L / 1.2g/L		
Flash Point	283°C / 2.3°C		
Auto Flammability	- / -		
Flammability	Yes		
Explosiveness	Yes		
Oxidising Properties	No		
Stability in organic solvent	Stable		
Storage stability	Stable		
pH	-		
Dissociation constant	0.0057 / 0.0002		

Substance centric model



Tiered approach

- 0th tier with search result
- 1st tier focusing on highest level summarised information – Infocard
 - 3 main objectives:
 - Allow users to identify the substance
 - Provide high-level information to concerned citizens
 - Provide an overview of key regulatory processes related to the substances
- 2nd tier with extended information – Brief Profile
 - The objective of the second layer is to provide summary data on all key aspects of a substance
- 3rd tier with raw data

0th Tier Search Results

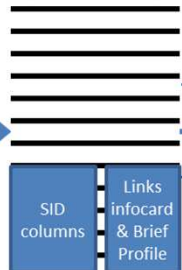
ECHA Website
Search for Chemicals



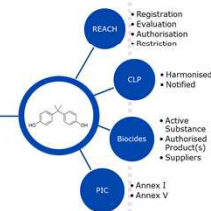
Information on
Chemicals
Simple / Advanced
Searches



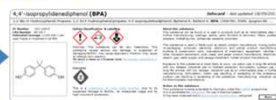
General Search
Results
(Substances)



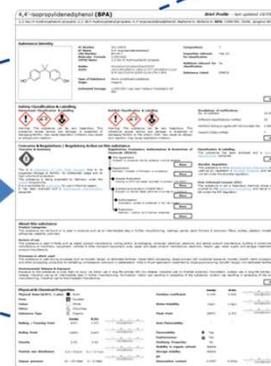
Identity Data
EC #
CAS #
Index #
EC Name
IUPAC name(s)
Public Name(s)
Synonyms
Trade Name(s)
SMILES
InChI
*Not to be used for
confidential data*



1st Tier Infocard



2nd Tier Brief Profile



3rd Tier Raw Data



Preregistration
List



Registration
Dossiers



Evaluation Decisions



CoRAP List



Authorisation List



Restriction List



ETC

0th Tier Search Results

1st Tier Infocard

2nd Tier Brief Profile

3rd Tier Raw Data

ECHA Website Search for Chemicals



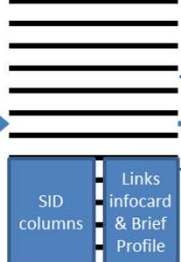
Information on Chemicals Simple / Advanced Searches



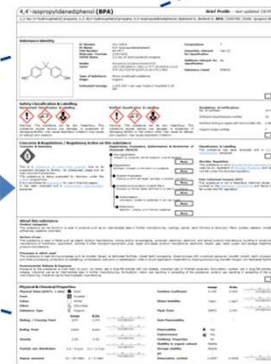
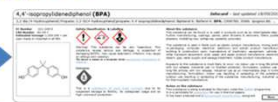
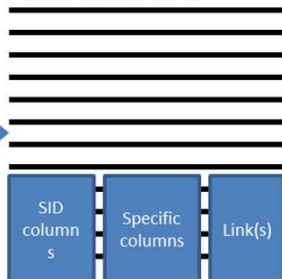
Information on Chemicals > ... Specific Searches



General Search Results (Substances)



Specific Search Results (e.g. CoRAP List)



Preregistration List



Registration Dossiers



Evaluation Decisions



CoRAP List



Authorisation List



Restriction List



ETC

Infocard

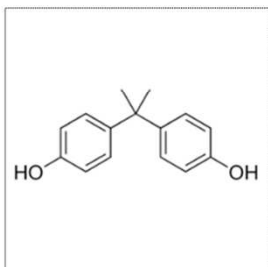
4,4'-isopropylidenediphenol

Infocard – last updated 18/10/2013

2,2-bis(4-hydroxyphenyl)propane; 2,2-di(4-hydroxyphenyl)propane; 4,4' isopropylidenediphenol; Biphenol A; Bisferol A; **BPA**; C006780; DIAN; Ipognox 88; ...

Substance Identity

EC Number 201-245-8
CAS Number 80-05-7
Molecular Formula C15H16O2



Safety classification & labelling



Caution! This substance can be very hazardous. This substance causes serious eye damage, is suspected of damaging fertility, may cause respiratory irritation, may cause an allergic skin reaction.

The above is based on a European Union [Harmonised Classification & Labelling](#)

Summary of Concerns



This is a [substance of very high concern](#).
It is being evaluated under the [CoRAP](#) programme.
It is a candidate for [restriction](#).
It has been analysed and a [harmonised classification](#) assigned.

About this substance

This substance is a High Production Volume (HPV) chemical; per year 1,000,000+ tonnes are made in or imported into the European Economic Area.

This substance can be found or is used in products such as an intermediate step in further manufacturing, coatings, paints, paint thinners & removers, fillers, putties, plasters, modelling clay, adhesives, sealants, polymers.

This substance is used in fields such as plastic product manufacture, mixing and/or re-packaging, computer, electrical, electronic and optical product manufacture, building & construction work, manufacture of machinery, equipment, vehicles & other transport equipment, pulp, paper and paper product manufacture, electricity, steam, gas, water supply and sewage treatment, rubber product manufacture.

Exposure to this substance is most likely to occur via indoor use in long-life articles with low release, industrial use (in finished products), formulation, outdoor use in long-life articles with low release, industrial use as an intermediate step in further manufacturing, formulation, indoor use resulting in spreading of the substance, outdoor use resulting in spreading of the substance, manufacturing, industrial use for thermoplastic manufacture.

Precautions and Safe Use

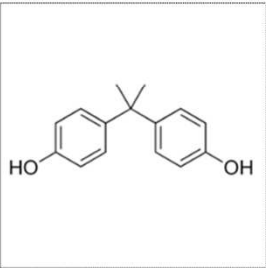


Precautions suggested by manufacturers and importers of this substance can be found [here](#); guidance provided by manufacturers and importers on the safe use of the substance can be found [here](#).

[More](#)

4,4'-isopropylidenediphenol – European Chemicals Agency Infocard – last updated 18/10/2013

- Simple high level overview of a substance
- Understandable to the broadest possible audience
- Most widely relevant data – summarised

Infocard

4,4'-isopropylidenediphenol		<i>Infocard – last updated 18/10/2013</i>	
2,2-bis (4-hydroxyphenol) propane; 2,2-di(4-hydroxyphenyl)propane; 4,4' isopropylidenediphenol; Biphenol A; Bisferol A; BPA ; C006780; DIAN; Ipognox 88; ...			
<p>Substance Identity EC Number 201-245-8 CAS Number 80-05-7 Molecular Formula C15H16O2</p> <div style="text-align: center;">  </div>	<p>Safety classification & labelling</p> <div style="text-align: center;">  </div> <p>Caution! This substance can be very hazardous. This substance causes serious eye damage, is suspected of damaging fertility, may cause respiratory irritation, may cause an allergic skin reaction. <i>The above is based on a European Union Harmonised Classification & Labelling</i></p> <p>Summary of Concerns</p> <div style="text-align: center;">  </div> <p>This is a substance of very high concern. It is being evaluated under the CoRAP programme. It is a candidate for restriction. It has been analysed and a harmonised classification assigned.</p>	<p>About this substance</p> <p>This substance is a High Production Volume (HPV) chemical; per year 1,000,000+ tonnes are made in or imported into the European Economic Area.</p> <p>This substance can be found or is used in products such as an intermediate step in further manufacturing, coatings, paints, paint thinners & removers, fillers, putties, plasters, modelling clay, adhesives, sealants, polymers.</p> <p>This substance is used in fields such as plastic product manufacture, mixing and/or re-packaging, computer, electrical, electronic and optical product manufacture, building & construction work, manufacture of machinery, equipment, vehicles & other transport equipment, pulp, paper and paper product manufacture, electricity, steam, gas, water supply and sewage treatment, rubber product manufacture.</p> <p>Exposure to this substance is most likely to occur via indoor use in long-life articles with low release, industrial use (in finished products), formulation, outdoor use in long-life articles with low release, industrial use as an intermediate step in further manufacturing, formulation, indoor use resulting in spreading of the substance, outdoor use resulting in spreading of the substance, manufacturing, industrial use for thermoplastic manufacture.</p> <p>Precautions and Safe Use</p> <p>Precautions suggested by manufacturers and importers of this substance can be found here; guidance provided by manufacturers and importers on the safe use of the substance can be found here.</p>	
<i>4,4'-isopropylidenediphenol – European Chemicals Agency Infocard – last updated 18/10/2013</i>		More	

- Substance ID – ECHA master name

Infocard

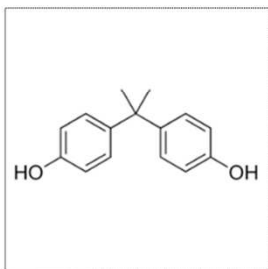
4,4'-isopropylidenediphenol

Infocard – last updated 18/10/2013

2,2-bis(4-hydroxyphenyl)propane; 2,2-di(4-hydroxyphenyl)propane; 4,4' isopropylidenediphenol; Biphenol A; Bisferol A; **BPA**; C006780; DIAN; Ipognox 88; ...

Substance Identity

EC Number 201-245-8
CAS Number 80-05-7
Molecular Formula C15H16O2



Safety classification & labelling



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Summary of Concerns



This is a [substance of very high concern](#).
It is being evaluated under the [CoRAP](#) programme.
It is a candidate for [restriction](#).
It has been analysed and a [harmonised classification](#) assigned.

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Precautions and Safe Use

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[More](#)

4,4'-isopropylidenediphenol – European Chemicals Agency Infocard – last updated 18/10/2013

- Substance ID – synonyms, non-confidential trade names, other names

Infocard

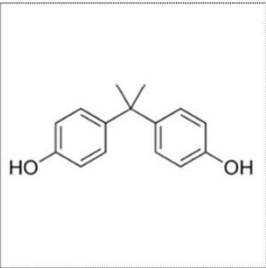
4,4'-isopropylidenediphenol

2,2-bis(4-hydroxyphenyl)propane; 2,2-di(4-hydroxyphenyl)propane; 4,4' isopropylidenediphenol; Biphenol A; Bisferol A; **BPA**; C006780; DIAN; Ipognox 88; ...




Infocard – last updated 18/10/2013

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EC Number 201-245-8
CAS Number 80-05-7
Molecular Formula C15H16O2




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Summary of Concerns



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[More](#)

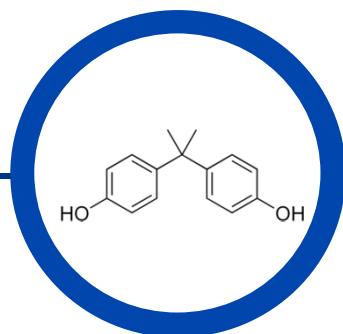
4,4'-isopropylidenediphenol – European Chemicals Agency Infocard – last updated 18/10/2013

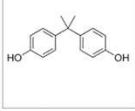
- Substance ID – numerical identifiers, molecular formula, molecular image

Substance Master List

Identity Data

EC #
CAS #
Index #
EC Name
IUPAC name(s)
Public Name(s)
Synonyms
Trade Name(s)
SMILES
InChI
NB: Only non-confidential data



4,4'-isopropylidenediphenol		Infocard - last updated 18/10/2013	
2,2-bis(4-hydroxyphenyl)propane; 2,2-di(4-hydroxyphenyl)propane; 4,4'-isopropylidenediphenol; Biphenol A; Bisferol A; BPA; C006780; DIAN; Ipnognox 88; ...			
<p>EC Number: 201-245-8 CAS Number: 82-69-7 Molecular Formula: C15H16O2</p> 	<p>Summary of Concerns</p> <p>This is a substance of very high concern. It is being evaluated under the CLP/REACH programme. It is a candidate for PBT/REACH. It has been analysed and a hazard/benefit classification assigned.</p>	<p>Precautions and Safe Use</p> <p>Precautions suggested by manufacturers and importers of this substance can be found here; guidance provided by manufacturers and importers on the safe use of the substance can be found here.</p>	<p>Infocard - last updated 18/10/2013</p> <p>This substance is a High Production Volume (HPV) chemical; per year 1,000,000+ tonnes are made in or imported into the European Economic Area.</p> <p>This substance can be found or is used in products such as an intermediate step in further manufacturing, coatings, paints, paint thinners & removers, fillers, putties, plasters, modelling clay, adhesives, sealants, polymers.</p> <p>This substance is used in fields such as plastic product manufacture, mixing and/or re-packaging, computer, electrical, electronic and optical product manufacture, building & construction work, manufacture of machinery, equipment, vehicles & other transport equipment, pulp, paper and paper product manufacture, electricity, steam, gas, water supply and sewage treatment, rubber product manufacture.</p> <p>Exposure to this substance is most likely to occur via indoor use in long-life articles with low release, industrial use as an intermediate step in further manufacturing, formulation, outdoor use resulting in spreading of the substance, outdoor use resulting in spreading of the substance, manufacturing, industrial use for thermoplastic manufacture.</p>
4,4'-isopropylidenediphenol - European Chemicals Agency: Infocard - last updated: 18/10/2013			

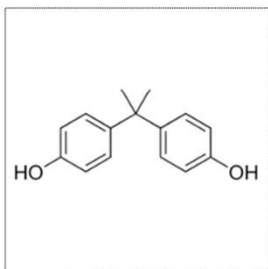
Infocard

4,4'-isopropylidenediphenol

Infocard – last updated 18/10/2013

2,2-bis(4-hydroxyphenyl)propane; 2,2-di(4-hydroxyphenyl)propane; 4,4'-isopropylidenediphenol; Biphenol A; Bisferol A; **BPA**; C006780; DIAN; Ipognox 88; ...

Substance Identity
EC Number 201-245-8
CAS Number 80-05-7
Molecular Formula C15H16O2



Safety classification & labelling



Caution! This substance can be very hazardous. This substance causes serious eye damage, is suspected of damaging fertility, may cause respiratory irritation, may cause an allergic skin reaction.

The above is based on a European Union [Harmonised Classification & Labelling](#)

Summary of concerns



This is a [substance of very high concern](#). It is being evaluated under the [CoRAP](#) programme. It is a candidate for [restriction](#). It has been analysed and a [harmonised classification](#) assigned.

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Precautions and Safe Use

Precautions suggested by manufacturers and importers of this substance can be found [here](#); guidance provided by manufacturers and importers on the safe use of the substance can be found [here](#).

More

4,4'-isopropylidenediphenol – European Chemicals Agency Infocard – last updated 18/10/2013

- Safety classification and labelling
- Automatically generated
 - From Harmonised C&L if available
 - Otherwise based on **all submitted** C&L notifications

C&L – given simply and understandably

Summary Of Classification and Labelling

Harmonised classification - Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation)

General Information

EC Number	CAS Number	Index Number	International Chemical Identification
201-245-8	80-05-7	004-010-00-0	2,2-bis(4-hydroxyphenyl)propane B.P.A. / Bisphenol A

ATP provided / updated: CLP/ATP/01
CLP Classification (Table 3.1)

Classification	Hazard Statement Code(s)	Hazard Statement Code(s)	Supplementary Hazard Statement Code(s)	Labelling	Pictograms, Signal Word Code(s)	Specific Concentration Limits, H-Factors	Notes
Skin Sens. 1	H317	H317			GHS07 GHS05 GHS08 DfP		
Eye Dam. 1	H318	H318					
STOT SE 3	H335	H335					
Repr. 2	H361D	H361D					

Signal word: Danger

DSD Classification (Table 3.2) and Seveso II Data

Classification	MSB Phrases	Safety Phrases	Indication of danger	Concentration Limits, Classification
Repr. Cat. 3, R52	20	20		
Xi, R37/38	40	370/37	Xi	
R62	52	50		
R52	52	60		

Seveso Substance: No

Notified classification and labelling

General Information

EC Number	CAS Number	EUPEC Name
201-245-8	80-05-7	2,2-bis(4-hydroxyphenyl)propane

Notified classification and labelling according to CLP criteria

Classification	Hazard Statement Code (S)	Hazard Statement Code (S)	Supplementary Hazard Statement Code (S)	Labelling	Pictograms, Signal Word Code (S)	Specific Concentration Limits, H-Factors	Notes	Number of notified	Initial Entries	View
Skin Sens. 1	H317	H317			GHS07					
Eye Dam. 1	H318	H318			GHS05 GHS08 DfP			854		
STOT SE 3	H335	H335								
Repr. 2	H361D	H361D								



4,4'-isopropylidenediphenol Infocard - last updated 18/10/2013

2,2-bis (4-hydroxyphenyl)propane

Substance Identity
EC Number: 201-245-8
CAS Number: 80-05-7
Molecular Formula: C15H16O2

Safety classification & labelling

Caution! This substance can be very hazardous. This substance causes serious eye damage, is suspected of damaging fertility, may cause respiratory irritation, may cause an allergic skin reaction. This substance is not for use as a process fluid.

Summary of Concerns

This is a substance of very high concern. It is being evaluated under the CSAR programme. It is a candidate for prioritisation. It has been analysed and a harmonised classification assigned.

About this substance
This substance is a High Production Volume (HPV) chemical; per year 1,000,000+ tonnes are made in or imported into the European Economic Area.
This substance can be found or is used in products such as an intermediate step in further manufacturing, coatings, paints, paint thinners & removers, fillers, putties, plasters, modelling clay, adhesives, sealants, polymers.
This substance is used in fields such as plastic product manufacture, mixing and/or re-packaging, computer, electrical, electronic and optical product manufacture, building & construction work, manufacture of machinery, equipment, vehicles & other transport equipment, pulp, paper and paper product manufacture, electricity, steam, gas, water supply and sewage treatment, rubber product manufacture.
Exposure to this substance is most likely to occur via indoor use in long-life articles with low release, industrial use as an intermediate step in further manufacturing, formulation, indoor use resulting in spreading of the substance, outdoor use resulting in spreading of the substance, manufacturing, industrial use for thermoplastic manufacture.

Precautions and Safe Use
Precautions suggested by manufacturers and importers of this substance can be found [here](#); guidance provided by manufacturers and importers on the safe use of the substance can be found [here](#).

4,4'-isopropylidenediphenol - European Chemicals Agency Infocard - last updated 18/10/2013

Infocard

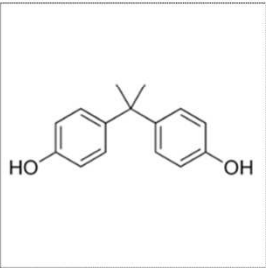
4,4'-isopropylidenediphenol

2,2-bis(4-hydroxyphenyl)propane; 2,2-di(4-hydroxyphenyl)propane; 4,4' isopropylidenediphenol; Biphenol A; Bisferol A; **BPA**; C006780; DIAN; Ipoqnox 88; ...




Infocard – last updated 18/10/2013

Substance Identity

EC Number 201-245-8
CAS Number 80-05-7
Molecular Formula C15H16O2




Safety classification & labelling

Caution! This substance can be very hazardous. This substance causes serious eye damage, is suspected of damaging fertility, may cause respiratory irritation, may cause an allergic skin reaction.
The above is based on a European Union [Harmonised Classification & Labelling](#)

Summary of Concerns



This is a **substance of very high concern**. It is being evaluated under the [CoRAP](#) programme. It is a candidate for [restriction](#). It has been analysed and a [harmonised classification](#) assigned.

About this substance

This substance is a High Production Volume (HPV) chemical; per year 1,000,000+ tonnes are made in or imported into the European Economic Area.

This substance can be found or is used in products such as an intermediate step in further manufacturing, coatings, paints, paint thinners & removers, fillers, putties, plasters, modelling clay, adhesives, sealants, polymers.

This substance is used in fields such as plastic product manufacture, mixing and/or re-packaging, computer, electrical, electronic and optical product manufacture, building & construction work, manufacture of machinery, equipment, vehicles & other transport equipment, pulp, paper and paper product manufacture, electricity, steam, gas, water supply and sewage treatment, rubber product manufacture.

Exposure to this substance is most likely to occur via indoor use in long-life articles with low release, industrial use (in finished products), formulation, outdoor use in long-life articles with low release, industrial use as an intermediate step in further manufacturing, formulation, indoor use resulting in spreading of the substance, outdoor use resulting in spreading of the substance, manufacturing, industrial use for thermoplastic manufacture.

Precautions and Safe Use

Precautions suggested by manufacturers and importers of this substance can be found [here](#); guidance provided by manufacturers and importers on the safe use of the substance can be found [here](#).

4,4'-isopropylidenediphenol – European Chemicals Agency Infocard – last updated 18/10/2013

More

- “About this Substance”
- Automatically generated
 - From all non-confidential tonnages (as currently disseminated)
 - From all non-confidential uses in all REACH registrations for the substance

Uses – given simply and understandably

Manufacture, use and exposure

Identified uses

Information on uses

Manufacture

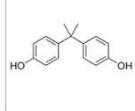
	Industrial Manufacturing of Bisphenol A
Process category	PROC 2: Use in closed, continuous process with occasional controlled exposure PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
Environmental release category	ERC 1: Manufacture of substances
	Industrial Use of Bisphenol A as Laboratory Reagent
Process category	PROC 15: Use as laboratory reagent
Environmental release category	ERC 1: Manufacture of substances
	Industrial Manufacturing of Bisphenol A
Process category	PROC 2: Use in closed, continuous process with occasional controlled exposure PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
Environmental release category	ERC 1: Manufacture of substances
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Process category	PROC 15: Use as laboratory reagent
Environmental release category	ERC 1: Manufacture of substances
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4,4'-isopropylidenediphenol Infocard – last updated 18/10/2013

2,2-bis(4-hydroxyphenyl)propane; 2,2-di(4-hydroxyphenyl)propane; 4,4'-isopropylidenediphenol

<p>Substance Identity</p> <p>EC Number 201-245-8 CAS Number 80-05-7 Molecular Formula C19H16O2</p>	<p>Safety classification & labelling</p> <p>Caution! This substance can be very hazardous. This substance causes serious eye damage, is suspected of damaging fertility, may cause respiratory irritation, may cause an allergic skin reaction. The above is based on a European Union harmonised classification Labelling.</p> <p>Summary of Concerns</p> <p>This is a substance of very high concern. It is being evaluated under the CSRD programme. It is a candidate for restriction. It has been analysed and a harmonised classification assigned.</p>	<p>About this substance</p> <p>This substance is a High Production Volume (HPV) chemical; per year 1,000,000+ tonnes are made in or imported into the European Economic Area.</p> <p>This substance can be found or is used in products such as an intermediate step in further manufacturing, coatings, paints, paint thinners & removers, fillers, putties, plasters, modelling clay, adhesives, sealants, polymers.</p> <p>This substance is used in fields such as plastic product manufacture, mixing and/or packaging, computer, electrical, electronic and optical product manufacture, building & construction work, manufacture of machinery equipment, vehicles & other transport equipment, pulp, paper and paper product manufacture, electricity, steam, gas, water supply and sewage treatment, rubber product manufacture.</p> <p>Exposure to this substance is most likely to occur via indoor use in long-life articles with low release, industrial use (in finished products), formulation, outdoor use in long-life articles with low release, industrial use as an intermediate step in further manufacturing, formulation, indoor use resulting in spreading of the substance, outdoor use resulting in spreading of the substance, manufacturing, industrial use for thermoplastic manufacture.</p> <p>Precautions and Safe Use</p> <p>Precautions suggested by manufacturers and importers of this substance can be found here; guidance provided by manufacturers and importers on the safe use of the substance can be found here.</p>
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4,4'-isopropylidenediphenol - European Chemicals Agency Infocard - last updated 18/10/2013

Infocard

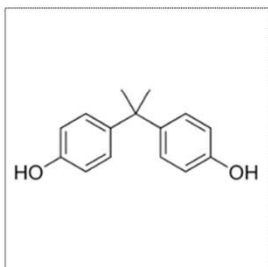
4,4'-isopropylidenediphenol

Infocard – last updated 18/10/2013

2,2-bis(4-hydroxyphenyl)propane; 2,2-di(4-hydroxyphenyl)propane; 4,4' isopropylidenediphenol; Biphenol A; Bisferol A; **BPA**; C006780; DIAN; Ipognox 88; ...

Substance Identity

EC Number 201-245-8
CAS Number 80-05-7
Molecular Formula C15H16O2



Safety classification & labelling



Caution! This substance can be very hazardous. This substance causes serious eye damage, is suspected of damaging fertility, may cause respiratory irritation, may cause an allergic skin reaction.

The above is based on a European Union [Harmonised Classification & Labelling](#)

Summary of Concerns



This is a [substance of very high concern](#).
It is being evaluated under the [CoRAP](#) programme.
It is a candidate for [restriction](#).
It has been analysed and a [harmonised classification](#) assigned.

About this substance

This substance is a High Production Volume (HPV) chemical; per year 1,000,000+ tonnes are made in or imported into the European Economic Area.

This substance can be found or is used in products such as an intermediate step in further manufacturing, coatings, paints, paint thinners & removers, fillers, putties, plasters, modelling clay, adhesives, sealants, polymers.

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Precautions and Safe Use

Precautions suggested by manufacturers and importers of this substance can be found [here](#); guidance provided by manufacturers and importers on the safe use of the substance can be found [here](#).

[More](#)


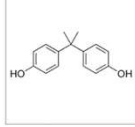

4,4'-isopropylidenediphenol – European Chemicals Agency Infocard – last updated 18/10/2013

- Summary of Concerns
- Highlights critical characteristics of the substance
 - “Red traffic lights” considered are SVHC, CMR, PBT
- Indicates key regulatory action(s) for the substance

Summary of concerns

- Key regulatory processes
- Master list identifies in which the substance is concerned
- Simple text for each process
- Key traffic light indicators if relevant conditions are met



4,4'-isopropylidenediphenol		Infocard - last updated 18/10/2013
2,2-bis(4-hydroxyphenyl)propane; 2,2-di(4-hydroxyphenyl)propane; 4,4'-isopropylidenediphenol; Biphenol A; Bisferol A; BPA; C006780; DIAN; Ipnognox 88; ...		
Substance Identity EC Number 201-245-8 CAS Number 80-56-7 Molecular Formula C15H16O2	Safety classification & labelling  Caution! This substance can be very hazardous. This substance causes serious eye damage, is suspected of damaging fertility, may cause respiratory irritation, may cause an allergic skin reaction. <i>This sheet is based on a European Union</i>	About this substance This substance is a High Production Volume (HPV) chemical; per year 1,000,000+ tonnes are made in or imported into the European Economic Area. This substance can be found or is used in products such as an intermediate step in further manufacturing, coatings, paints, paint thinners & removers, fillers, putties, plasters, modelling clay, adhesives, sealants, polymers. This substance is used in fields such as plastic product manufacture, mixing and/or packaging, computer, electrical, electronic and optical product manufacture, building & construction work, manufacture of machinery, equipment, vehicles & other transport equipment, pulp, paper and paper product manufacture, electricity, steam, gas, water supply and sewage treatment, rubber product manufacture.
	<div style="border: 2px solid red; padding: 5px;"> Summary of Concerns  This is a substance of very high concern. It is being evaluated under the CSAR programme. It is a candidate for restriction. It has been analysed and a harmonised classification assigned. </div>	Exposure to this substance is most likely to occur via indoor use in long-life articles with low release, industrial use as an intermediate step in further manufacturing, formulation, outdoor use resulting in spreading of the substance, outdoor use resulting in spreading of the substance, manufacturing, industrial use for thermoplastic manufacture. Precautions and Safe Use Precautions suggested by manufacturers and importers of this substance can be found here ; guidance provided by manufacturers and importers on the safe use of the substance can be found here .
4,4'-isopropylidenediphenol - European Chemicals Agency Infocard - last updated: 18/10/2013		

Brief Profile

4,4'-isopropylidenediphenol

Brief Profile – last updated 18/10/2013

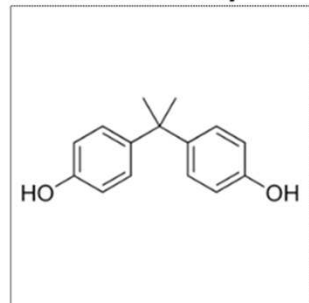
2,2-bis(4-hydroxyphenol) propane; 2,2-di(4-hydroxyphenyl)propane; 4,4' isopropylidenediphenol; Biphenol A; Bisferol A; **BPA**; C006780; DIAN; Ipognox 88; ...

Introduction

The following is a brief profile summarising the non-confidential data on this substance held in the databases of the European Chemicals Agency (ECHA). Please note that this brief profile is generated automatically based on the data available at the time of generation. The data remains the responsibility of its respective owners and ECHA does not assure the quality and correctness of the information. This brief profile is covered by the [ECHA Legal Disclaimer](#).

[More](#)

Substance Identity



EC Number 201-245-8
EC Name 4,4'-isopropylidenediphenol
CAS Number 80-05-7
Molecular Formula C₁₅H₁₆O₂
IUPAC Name 2,2-bis(4-hydroxyphenol) propane

Smiles Oc1ccc(cc1)C(c2ccc(O)cc2)(C)C
InChI 15/C15H16O2/c1-15(2,11-3-7-13(16)8-4-11)12-5-9-14(17)10-6-12/h3-10,16-17H,1-2H3

Type of Substance Mono constituent substance
Origin Organic

Compositions 7

Impurities relevant for classification Yes (2)

Additives relevant for classification No

Substance Listed EINECS

[More](#)

Safety Classification & Labelling

Harmonised Classification & Labelling (ATP 4 – Sep 2013)



Caution! This substance can be very hazardous. This substance causes serious eye damage, is suspected of damaging fertility, may cause respiratory irritation, may cause an allergic skin reaction.

[More](#)

Notified Classifications & Labellings

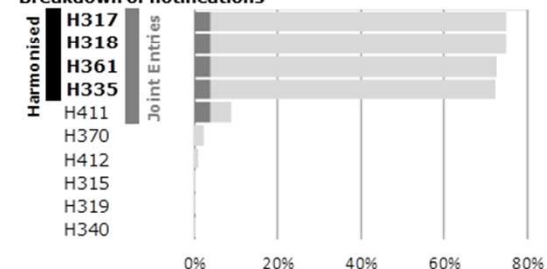


Caution! This substance can be very hazardous. This substance causes serious eye damage, is suspected of damaging fertility, may cause respiratory irritation, may cause an allergic skin reaction.

The above is compiled based on all of the classifications and labellings notified to ECHA by industry

[More](#)

Breakdown of notifications



Concerns & Regulations / Regulatory Action on this substance

Summary of Concerns

This is a [substance of very high concern](#). It is being evaluated under the [CoRAP](#) programme. It is a candidate for [restriction](#). It has been analysed and a [harmonised classification](#) assigned.

Registration, Evaluation, Authorisation & Restriction of Chemicals (REACH)



Substance ID

- Substance master list
- More non-confidential identifiers
- Data on compositions submitted, impurities & additives relevant to classification

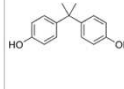


Brief Profile – last updated 18/10/2013

4,4'-isopropylidenediphenol
2,2-bis (4-hydroxyphenyl) propane; 2,2-di(4-hydroxyphenyl)propane; 4,4' isopropylidenediphenol; Biphenol A; Bisferol A; BPA; C006780; DIAM; Ipopnox 88; ...

Introduction
The following is a brief profile summarising the non-confidential data on this substance held in the databases of the European Chemicals Agency (ECHA). Please note that this brief profile is generated automatically based on the data available at the time of generation. The data remains the responsibility of its respective owners and ECHA does not assure the quality and correctness of the information. This brief profile is covered by the ECHA Legal Disclaimer. [More](#)

Substance Identity

	EC Number	201-245-8	Type of Substance	Mono constituent substance
	EC Name	4,4'-isopropylidenediphenol	Origin	Organic
	CAS Number	80-55-7	Registered Compositions	7
	Index Number	604-030-00-0	Of which contain Impurities relevant for classification	2 compositions
Molecular Formula	C15H16O2	Other Names	Additives relevant for classification	No compositions
IUPAC Name	2,2-bis (4-hydroxyphenyl) propane	Smiles	Substance Listed	EINECS (European Inventory of Existing Commercial Chemical Substances)
InChI	Oc1ccc(cc1)C(C)(C)Oc2ccc(O)cc2	InChI		

Safety Classification & Labelling (ATP – Sep 2013)

Notified Classifications & Labellings

Breakdown of all 2 605 C&Ls notified to ECHA

Concerns & Regulations / Regulatory Action on this substance

Registration, Evaluation, Authorisation & Restriction of Chemicals (REACH)

Classification Labelling & Packaging (CLP)

Biocidal Products Regulation (BPR)

Prior Informed Consent (PIC)

About this substance

General
This substance is a High Production Volume (HPV) chemical; per year 1,000,000+ tonnes are made in or imported into the European Economic Area.

Product Categories
This substance is used in products or processes such as chemical processing in order to be transformed into another substance (use of intermediates), coatings, paints, paint thinners & removers, fillers, putties, plasters, modelling clay, adhesives, sealants, polymers.

Sectors of use
This substance is used in fields such as plastic product manufacture, mixing and/or re-packaging, computer, electrical, electronic and optical product manufacture, building & construction work, manufacture of machinery, equipment, vehicles & other transport equipment, pulp, paper and paper product manufacture, electricity, steam, gas, water supply and sewage treatment, rubber product manufacture.

Processes in which used
This substance is used in activities or processes at workplace such as transfer (large), at dedicated facilities, closed batch processing, closed process with occasional exposure, transfer (small), batch processing, batch and other processing, production by tableting, compression, extrusion or pelletsation, roller or brush application, treatment by dipping and pouring, transfer (large), non-dedicated facilities.

Environmental Release & Exposure
Release to the environment of this substance is likely to occur from indoor use in long-life articles with low release, industrial use (in finished products), formulation, outdoor use in long-life articles with low release, industrial use as an intermediate step in further manufacturing, formulation, indoor use resulting in spreading of the substance, outdoor use resulting in spreading of the substance, manufacturing, industrial use for thermoplastic manufacture.

Precautions and Safe Use
Precautions suggested by manufacturers and importers of this substance can be found [here](#); guidance provided by manufacturers and importers on the safe use of the substance can be found [here](#). [More](#)

4,4'-Isopropylidenediphenol – European Chemicals Agency Brief Profile – last updated 18/10/2013 – page 1 of 2

C&L – expanded

- C&L Inventory data
- Harmonised entry displayed if it exists
 - And ATP date
- All notifications compiled & shown
- Breakdown of notifications
 - Agreement with harmonised
 - Agreement with joint entry



4,4'-isopropylidenediphenol Brief Profile – last updated 18/10/2013

2,2-bis(4-hydroxyphenyl)propane; 2,2-di(4-hydroxyphenyl)propane; 4,4' isopropylidenediphenol; Biphenol A; Bisferol A; BPA; C006780; DIAM; Ipoprox 88; ...

Introduction
The following is a brief profile summarising the non-confidential data on this substance held in the databases of the European Chemicals Agency (ECHA). Please note that this brief profile is generated automatically based on the data available at the time of generation. The data remains the responsibility of its respective owners and ECHA does not assure the quality and correctness of the information. This brief profile is covered by the [ECHA Legal Disclaimer](#). More

Substance Identity

	EC Number	201-245-8	Type of Substance	Mono constituent substance	
	EC Name	4,4'-isopropylidenediphenol	Origin	Organic	
	CAS Number	80-55-7	Registered Compositions	7	
	Index Number	604-030-00-0	Of which contain Impurities relevant for classification	2 compositions	
Molecular Formula	C15H16O2	Other Names	2,2-bis(4-hydroxyphenyl)propane; 2,2-bis(4-hydroxyphenyl)propane; 4,4'-isopropylidenediphenol;	Additives relevant for classification	No compositions
IUPAC Name	2,2-bis(4-hydroxyphenyl)propane	Smiles	Oc1ccc(cc1)C(C)(C)Oc2ccc(O)cc2	Substance Listed	EINECS (European Inventory of Existing Commercial Chemical Substances)
InChI	18/1341602/C1=11;2,11-3-7-12(10)-4-11)12-5-9-14)7(10-6-12)9-10,16-176-1-2)1				

Safety Classification & Labelling

EU Harmonised Classification & Labelling (ATP 4 – Sep 2013)

Notified Classifications & Labellings

Breakdown of all 2 605 C&Ls notified to ECHA

Concerns & Regulations / Regulatory Action on this substance

Summary of Concerns
There are at present no concerns relating to this substance.

Registration, Evaluation, Authorisation & Restriction of Chemicals (REACH)

Registration Pre-registration Indication by companies that the substance would be registered
Registration Submission of dossier of information on a substance

Evaluation Dossier Evaluation Indication that one or more dossiers submitted to ECHA to register this substance have been evaluated under REACH
Substance Evaluation Indication that this substance is being evaluated under the Community Rolling Action Plan (CoRAP)

Authorisation Candidate List Indication that this substance has been identified as a substance of very high concern (SVHC) and is a candidate for authorisation under Annex XIV (Authorisation List) Indication that according to Annex XIV of REACH this substance is an SVHC and that it requires authorisation before it can be used

Restriction Annex XVII (Restriction List) Indication that some uses of this substance are restricted under Annex XVII of REACH

Classification Labelling & Packaging (CLP)
Harmonised CLP Indication that a European Union harmonised classification and labelling has been assigned to the substance
Notification Indication that industry has notified ECHA of classification and labelling for this substance

Biocidal Products Regulation (BPR)
Active Substance Indication that this substance is approved for use as a Biocidal Active Substance
Biocidal Product Indication that there are authorized biocidal products that use this substance as an active ingredient

Prior Informed Consent (PIC)
Annex I Indication that this substance is subject to the PIC regulation and cannot be exported from the EEA without informing ECHA
Annex V Indication that this substance is subject to the PIC regulation and is prohibited from export due to its hazardousness

About this substance

General
This substance is a High Production Volume (HPV) chemical; per year 1,000,000+ tonnes are made in or imported into the European Economic Area.

Product Categories
This substance is used in products or processes such as chemical processing in order to be transformed into another substance (use of intermediates), coatings, paints, paint thinners & removers, fillers, putties, plasters, modelling clay, adhesives, sealants, polymers.

Sectors of use
This substance is used in fields such as plastic product manufacture, mixing and/or re-packaging, computer, electrical, electronic and optical product manufacture, building & construction work, manufacture of machinery, equipment, vehicles & other transport equipment, pulp, paper and paper product manufacture, electricity, steam, gas, water supply and sewage treatment, rubber product manufacture.

Processes in which used
This substance is used in activities or processes at workplace such as transfer (large), at dedicated facilities, closed batch processing, closed process with occasional exposure, transfer (small), batch processing, batch and other processing, production by tableting, compression, extrusion or pelletisation, roller or brush application, treatment by dipping and pouring, transfer (large), non-dedicated facilities.

Environmental Release & Exposure
Release to the environment of this substance is likely to occur from indoor use in long-life articles with low release, industrial use (in finished products), formulation, outdoor use in long-life articles with low release, industrial use as an intermediate step in further manufacturing, formulation, indoor use resulting in spreading of the substance, outdoor use resulting in spreading of the substance, manufacturing, industrial use for thermoplastic manufacture.

Precautions and Safe Use
Precautions suggested by manufacturers and importers of this substance can be found [here](#); guidance provided by manufacturers and importers on the safe use of the substance can be found [here](#). More

4,4'-Isopropylidenediphenol – European Chemicals Agency Brief Profile – last updated 18/10/2013 – page 1 of 2

Concerns & Regulations / Regulatory Action on this substance

Summary of Concerns

There are at present no concerns relating to this substance.

Registration, Evaluation, Authorisation & Restriction of Chemicals (REACH)

Registration

Pre-registration *Indication by companies that the substance would be registered*
Registration *Submission of dossier of information on a substance*

Evaluation

Dossier Evaluation *Indication that one or more dossiers submitted to ECHA to register this substance have been evaluated under REACH*
Substance Evaluation *Indication that this substance is being evaluated under the Community Rolling Action Plan (CoRAP)*

Authorisation

Candidate List *Indication that this substance has been identified as a substance of very high concern (SVHC) and is a candidate for authorisation*
Annex XIV (Authorisation List) *Indication that according to Annex XIV of REACH this substance is an SVHC and that it requires authorisation before it can be used*

Restriction

Annex XVII (Restriction List) *Indication that some uses of this substance are restricted under Annex XVII of REACH*

Classification Labelling & Packaging (CLP)

Harmonised C&L *Indication that a European Union harmonised classification and labelling has been assigned to this substance*

Notification *Indication that industry has notified ECHA of classifications and labellings for this substance*

Biocidal Products Regulation (BPR)

Active Substance *Indication that this substance is approved for use as a Biocidal Active Substance*

Biocidal Products *Indication that there are authorised biocidal products that use this substance as an active ingredient*

Prior Informed Consent (PIC)

Annex I *Indication that this substance is subject to the PIC regulation and cannot be exported from the EEA without informing ECHA*

Annex V *Indication that this substance is subject to the PIC regulation and is prohibited from export due to its hazardousness*

About this substance

General

This substance is a High Production Volume (HPV) chemical; per year 1,000,000+ tonnes are made in or imported into the European Economic Area.

Product Categories

This substance is used in products or processes such as chemical processing in order to be transformed into another substance (use of intermediates), coatings, paints, paint thinners & removers, fillers, putties, plasters, modelling clay, adhesives, sealants, polymers.

Sectors of use

This substance is used in fields such as plastic product manufacture, mixing and/or re-packaging, computer, electrical, electronic and optical product manufacture, building & construction work, manufacture of machinery, equipment, vehicles & other transport equipment, pulp, paper and paper product manufacture, electricity, steam, gas, water supply and sewage treatment, rubber product manufacture.

Processes in which used

This substance is used in activities or processes at workplace such as transfer (large), at dedicated facilities, closed batch processing, closed process with occasional exposure, transfer (small), batch processing, batch and other processing, production by tableting, compression, extrusion or pelletisation, roller or brush application, treatment by dipping and pouring, transfer (large), non-dedicated facilities.

Environmental Release & Exposure

Release to the environment of this substance is likely to occur from indoor use in long-life articles with low release, industrial use (in finished products), formulation, outdoor use in long-life articles with low release, industrial use as an intermediate step in further manufacturing, formulation, indoor use resulting in spreading of the substance, outdoor use resulting in spreading of the substance, manufacturing, industrial use for thermoplastic manufacture.

Precautions and Safe Use

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More

Regulatory Action

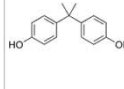
- From substance master list
- Key concerns indicated
- Breakdown by
 - Regulation (REACH, CLP, BPR, PIC)
 - Regulatory processes within regulations
- Indicates status of substance in all processes at a glance





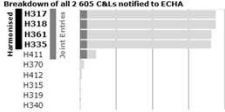
Brief Profile – last updated 18/10/2013

4,4'-isopropylidenediphenol
2,2-bis (4-hydroxyphenyl) propane; 2,2-di(4-hydroxyphenyl)propane; 4,4' isopropylidenediphenol; Biphenol A; Bisferol A; BPA; C006780; DIAN; Ipopnox 88; ...

Introduction
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Substance Identity	EC Number	Type of Substance	Origin
	EC Number: 201-245-8	Mono constituent substance	Organic
	EC Name: 4,4'-isopropylidenediphenol	Registered Composites: 7	
	CAS Number: 80-55-7		
	Index Number: 604-030-00-0		
	Molecular Formula: C15H16O2		
IUPAC Name: 2,2-bis (4-hydroxyphenyl) propane			
Other Names: 2,2-bis (4-hydroxyphenyl) propane; 2,2-bis(4-hydroxyphenyl)propane; 4,4' isopropylidenediphenol;			
Smiles: <chem>Oc1ccc(cc1)C(c2ccc(O)cc2)C(c3ccc(O)cc3)c4ccccc4</chem>			
InChI: 18/1341602/C1=11;2,11-3-7-11(16)8-4-11)12-5-9-14(7)10-6-12(9)16,16-17(6,1-2)1			

Safety Classification & Labelling (ATP 4 – Sep 2013)

EU Harmonised Classification & Labelling	Notified Classifications & Labellings	Breakdown of all 2 605 CLs notified to ECHA
 <p>Caution! This substance can be very hazardous. This substance causes serious eye damage, is suspected of damaging fertility, may cause respiratory irritation, may cause an allergic skin reaction.</p> More	 <p>Caution! This substance can be very hazardous. This substance causes serious eye damage, is suspected of damaging fertility, may cause respiratory irritation, may cause an allergic skin reaction.</p> <p><i>The above is compiled based on all of the classifications and labellings notified to ECHA by industry.</i></p> More	 <p>Legend: H314, H315, H335, H411, H370, H412, H315, H319, H340</p>

Concerns & Regulations / Regulatory Action on this substance

Summary of Concerns
There are at present no concerns relating to this substance.

Registration, Evaluation, Authorisation & Restriction of Chemicals (REACH)

Registration: Pre-registration: Indication by companies that the substance would be registered
Registration: Submission of dossier of information on a substance

Evaluation: Dossier Evaluation: Indication that one or more dossiers submitted to ECHA to register this substance have been evaluated under REACH
Substance Evaluation: Indication that this substance is being evaluated under the Community Rolling Action Plan (CoRAP)

Authorisation: Candidate List: Indication that this substance has been identified as a substance of very high concern (SVHC) and is a candidate for authorisation under Annex XIV (Authorisation List). Indication that according to Annex XV of REACH this substance is an SVHC and that it requires authorisation before it can be used

Restriction: Annex XVII (Restriction List): Indication that some uses of this substance are restricted under Annex XVII of REACH

Classification Labelling & Packaging (CLP)
Harmonised CL: Indication that a European Union harmonised classification and labelling has been assigned to the substance
Notification: Indication that industry has notified ECHA of classifications and labellings for this substance

Biocidal Products Regulation (BPR)
Active Substance: Indication that this substance is approved for use as a Biocidal Active Substance
Biocidal Product: Indication that there are authorized biocidal products that use the substance as an active ingredient

Prior Informed Consent (PIC)
ANNEX I: Indication that this substance is subject to the PIC regulation and cannot be exported from the EEA without informing ECHA
ANNEX V: Indication that this substance is subject to the PIC regulation and is prohibited from export due to its hazardousness

General
This substance is a High Production Volume (HPV) chemical; per year 1,000,000+ tonnes are made in or imported into the European Economic Area.

Product Categories
This substance is used in products or processes such as chemical processing in order to be transformed into another substance (use of intermediates), coatings, paints, paint thinners & removers, fillers, putties, plasters, modelling clay, adhesives, sealants, polymers.

Sectors of use
This substance is used in fields such as plastic product manufacture, mixing and/or re-packing, computer, electrical, electronic and optical product manufacture, building & construction work, manufacture of machinery, equipment, vehicles & other transport equipment, pulp, paper and paper product manufacture, electricity, steam, gas, water supply and sewage treatment, rubber product manufacture.

Processes in which used
This substance is used in activities or processes at workplace such as transfer (large), at dedicated facilities, closed batch processing, closed process with occasional exposure, transfer (small), batch processing, batch and other processing, production by labelling, compression, extrusion or pelletisation, roller or brush application, treatment by dipping and pouring, transfer (large), non-dedicated facilities.

Environmental Release & Exposure
Release to the environment of this substance is likely to occur from indoor use in long-life articles with low release, industrial use (in finished products), formulation, outdoor use in long-life articles with low release, industrial use as an intermediate step in further manufacturing, formulation, indoor use resulting in spreading of the substance, manufacturing, industrial use for thermoplastic manufacture.

Precautions and Safe Use
Precautions suggested by manufacturers and importers of this substance can be found [here](#); guidance provided by manufacturers and importers on the safe use of the substance can be found [here](#). More

4,4'-Isopropylidenediphenol – European Chemicals Agency Brief Profile – last updated 18/10/2013 – page 1 of 2

About – expanded

- Headings to clarify topic of each paragraph – based on use descriptor types
- Product category (PC)
- Sector of use (SU)
- Processes in which used (PROC)
- Environmental release categories (ERC)
- Add processes in which used

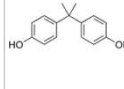


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Substance Identity



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Smiles Oc1ccc(cc1)C(C)(C)c2ccc(O)cc2
InChI 18/1341602/C1=11;2,11-3-7-12(16)8-4-11)12-5-9-14(17)10-6-12(9)-16,16-17(6)-1-2(4)


Type of Substance Mono constituent substance
Origin Organic

Registered Composites 7

Of which contain:
Impurities relevant for classification 2 compositions
Additives relevant for classification No compositions


Substance Listed EINECS (European Inventory of Existing Commercial Chemical Substances) More

Safety Classification & Labelling (GHS – Sep 2013)



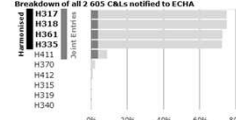
Caution! This substance can be very hazardous. This substance causes serious eye damage, is suspected of damaging fertility, may cause respiratory irritation, may cause an allergic skin reaction. More

Notified Classifications & Labellings



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The above is compiled based on all of the classifications and labellings notified to ECHA by industry. More

Breakdown of all 2 605 C&Ls notified to ECHA



Classification	Count
H314	~100
H335	~100
H315	~100
H411	~100
H370	~100
H412	~100
H315	~100
H319	~100
H340	~100

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Processes in which used
The substance is used in activities or processes at workplace such as transfer (large), at dedicated facilities, closed batch processing, closed process with occasional exposure, transfer (small), batch processing, batch and other processing, production by tableting, compression, extrusion or pelletisation, roller or brush application, treatment by dipping and pouring, transfer (large), non-dedicated facilities.

Environmental Release & Exposure
Release to the environment of this substance is likely to occur from indoor use in long-life articles with low release, industrial use (in finished products), formulation, outdoor use in long-life articles with low release, industrial use as an intermediate step in further manufacturing, formulation, indoor use resulting in spreading of the substance, outdoor use resulting in spreading of the substance, manufacturing, industrial use for thermoplastic manufacture.




Precautions and Safe Use
Precautions suggested by manufacturers and importers of this substance can be found [here](#); guidance provided by manufacturers and importers on the safe use of the substance can be found [here](#). More


4,4'-Isopropylidenediphenol – European Chemicals Agency Brief Profile – last updated 18/10/2013 – page 1 of 2


2,2-bis (4-hydroxyphenol) propane; 2,2-di(4-hydroxyphenyl)propane; 4,4' isopropylidinediphenol; Biphenol A; Bisferol A; **BPA**; C006780; DIAN; Ipognox 88; ...

Physical & Chemical Properties

Appearance

Physical state (20°C, 1 atm)	 Solid
Form	 Crystals
Colour	<input type="checkbox"/> White
Odour	Odourless
Substance type	 Organic


Density	1.06 – 1.2 g/cm ³ (@ 20 – 160°C)
Viscosity	 No (usable) data submitted / available
Melting / freezing point	150 – 157°C (@ 1 atm)
Boiling point	220°C @ 5.22 hPa 250 – 252°C (@ 17 hPa) 220 – 360°C (@ 1 atm)

Flammability	-
Explosive properties	-
Self-ignition temperature	-
Vapour pressure	0.00161 – 1.297 x 10 ⁻⁷ hPa (@ 20 – 50 °C) 0.09 – 10.13 hPa (@ 170 – 190°C)
Molecular weight	228.29
Water solubility	120 – 340 mg/L (@ 25 – 83°C and pH 4 – 10)
Flash point	207 – 227 °C (@ ~1 atm)
Octanol-water partition coefficient (LogKow)	2.20 – 3.32 logKow (@ ~21.5°C and pH 3 – 6.7)
Dissociation constant	9.73 – 10.48
Stability in organic solvents	 No (usable) data submitted / available


[More](#)

Environmental fate and pathways


STABILITY

Phototransformation in air	0.13 days (calculated)
Phototransformation in water	17.4 – 32.2 hours (river / lake fulvic acids)
Phototransformation in soil	Not justified
Hydrolysis	 No (usable) data submitted / available

BIODEGRADATION

In water: screening tests	74.7 – 81.4% (over 28 days)
In water & sediment: simulation tests	0.5 – 2.6 days
In soil	0.5 – 2.6 days
Mode of degradation (actual use)	 No (usable) data submitted / available

BIOACCUMULATION

Aquatic / sediment	20 – 67 BCF (whole body weight @ 15 µg/l)
Terrestrial	 No (usable) data submitted / available

TRANSPORT & DISTRIBUTION

Adsorption	890 L/kg Koc
Desorption	1090 L/kg Koc
Henry's Law constant	0.000312 other: mPa m ³ /mol (@ 25°C and 1013 hPa)
Distribution modelling:	
Air	0.01%
Water	32.9%
Soil	65.3%
Sediment	1.8%

[More](#)

Ecotoxicological information

Predicted No-Effect Concentration (PNEC) values

The PNEC value is the concentration of the substance below which adverse effects in the environment are not expected to occur.

Freshwater	0.018 mg/L
Marine water	0.016 mg/L
Intermittent releases to water	0.01 mg/L

STP	 No (usable) data submitted / available
-----	--

Sediments (freshwater)	2.2 mg/kg sediment dw
Sediments (marine water)	0.44 mg/kg sediment dw
Sewage treatment plant	320 mg/L
Soil	3.7 mg/kg soil dw
Air	- (no hazard identified)
Secondary poisoning	13.8 mg/kg food

[More](#)

Toxicological information

Derived No-Effect Level (DNEL) – for WORKERS

The DNEL is the level of exposure above which a human should not be exposed to a substance.

INHALATION

- Systemic effects
 - Long term 10 mg/m³ – most sensitive: repeated dose toxicity
 - Acute 10 mg/m³ – most sensitive: repeated dose toxicity

Derived No-Effect Level (DNEL) – for the GENERAL POPULATION

INHALATION

- Systemic effects
 - Long term 0.25 mg/m³ – most sensitive: repeated dose toxicity
 - Acute 5 mg/m³ – most sensitive: repeated dose toxicity

Toxicological information

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The DNEL is the level of exposure above which a human should not be exposed to a substance.

INHALATION

Systemic effects

- Long term 10 mg/m³ – most sensitive: repeated dose toxicity
- Acute 10 mg/m³ – most sensitive: repeated dose toxicity

Local effects

- Long term 10 mg/m³ – most sensitive: irritation (respiratory tract)
- Acute 10 mg/m³ – most sensitive: irritation (respiratory tract)

DERMAL


Systemic effects

- Long term 1.4 mg/kg bw/day – most sensitive: repeated dose toxicity
- Acute 1.4 mg/kg bw/day – most sensitive: repeated dose toxicity

Local effects

- Long term  No data
- Acute  No data

EYES

 No data

Derived No-Effect Level (DNEL) – for the GENERAL POPULATION

INHALATION

Systemic effects

- Long term 0.25 mg/m³ – most sensitive: repeated dose toxicity
- Acute 5 mg/m³ – most sensitive: repeated dose toxicity

Local effects

- Long term 5 mg/m³ – most sensitive: irritation (respiratory tract)
- Acute 5 mg/m³ – most sensitive: irritation (respiratory tract)

DERMAL


Systemic effects

- Long term 0.7 mg/kg bw/day – most sensitive: repeated dose toxicity
- Acute 0.7 mg/kg bw/day – most sensitive: repeated dose toxicity

Local effects

- Long term  No data
- Acute  No data

EYES

 No data

ORAL

Systemic effects

- Long term 0.05 mg/kg bw/day – most sensitive: repeated dose toxicity
- Acute 0.05 mg/kg bw/day – most sensitive: repeated dose toxicity

[More](#)

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European Chemicals Agency, Annankatu 18, P.O. Box 400, FI-00121 Helsinki, Finland; echa.europa.eu

[More](#)

Scientific data

- Issue:
 - Many ways to indicate endpoint results
 - Many measurement conditions
 - Mostly insufficient data for statistical treatment
- Proposed solution:
 - Summarise max-min of result at max(es)-min(s) of condition(s)



4,4'-isopropylidenediphenol Brief Profile – last updated 18/10/2013

Physical & Chemical Properties

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 Physical state (20°C, 1 atm) Solid
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 Colour White
 Odour Odourless
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Flammability
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Explosive properties
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Self-ignition temperature
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Vapour pressure
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Intermittent releases to water 0.01 mg/L

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 - Acute 10 mg/m³ – most sensitive: repeated dose toxicity
- Local effects
 - Long term 10 mg/m³ – most sensitive: irritation (respiratory tract)
 - Acute 10 mg/m³ – most sensitive: irritation (respiratory tract)

DERMAL

- Systemic effects
 - Long term 1.4 mg/kg bw/day – most sensitive: repeated dose toxicity
 - Acute 1.4 mg/kg bw/day – most sensitive: repeated dose toxicity
- Local effects
 - Long term No (usable) data submitted / available
 - Acute No (usable) data submitted / available

EYES No (usable) data submitted / available

Derived No-Effect Level (DNEL) – for the GENERAL POPULATION

INHALATION

- Systemic effects
 - Long term 0.25 mg/m³ – most sensitive: repeated dose toxicity
 - Acute 5 mg/m³ – most sensitive: repeated dose toxicity
- Local effects
 - Long term 5 mg/m³ – most sensitive: irritation (respiratory tract)
 - Acute 5 mg/m³ – most sensitive: irritation (respiratory tract)

DERMAL

- Systemic effects
 - Long term 0.7 mg/kg bw/day – most sensitive: repeated dose toxicity
 - Acute 0.7 mg/kg bw/day – most sensitive: repeated dose toxicity
- Local effects
 - Long term No (usable) data submitted / available
 - Acute No (usable) data submitted / available

EYES No (usable) data submitted / available

ORAL

- Systemic effects
 - Long term 0.05 mg/kg bw/day – most sensitive: repeated dose toxicity
 - Acute 0.05 mg/kg bw/day – most sensitive: repeated dose toxicity

More

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4,4'-isopropylidenediphenol – European Chemicals Agency Brief Profile – last updated 18/10/2013 – page 2 of 2

Conclusion

- Complex data on substances can be summarised
- Algorithms & logic exist already as prototype versions
- With foundation in place there are many possibilities for enhancements
 - Key concerns – additional data
 - More coverage of regulatory processes
 - Precautions & safe uses submitted to ECHA (P-codes)
 - Highlight further range of C&L notifications & promote agreement
 - Highlight where data is not provided to ECHA (in a usable way)
 - Possibility to allow users to indicate incorrect data and request corrections