

REACH/CLP information to ensure safe use and support substitution

Use of REACH/CLP information at
industrial sites

16 - 17 April 2015

Fesil Mushtaq
European Chemicals Agency





REACH Registration

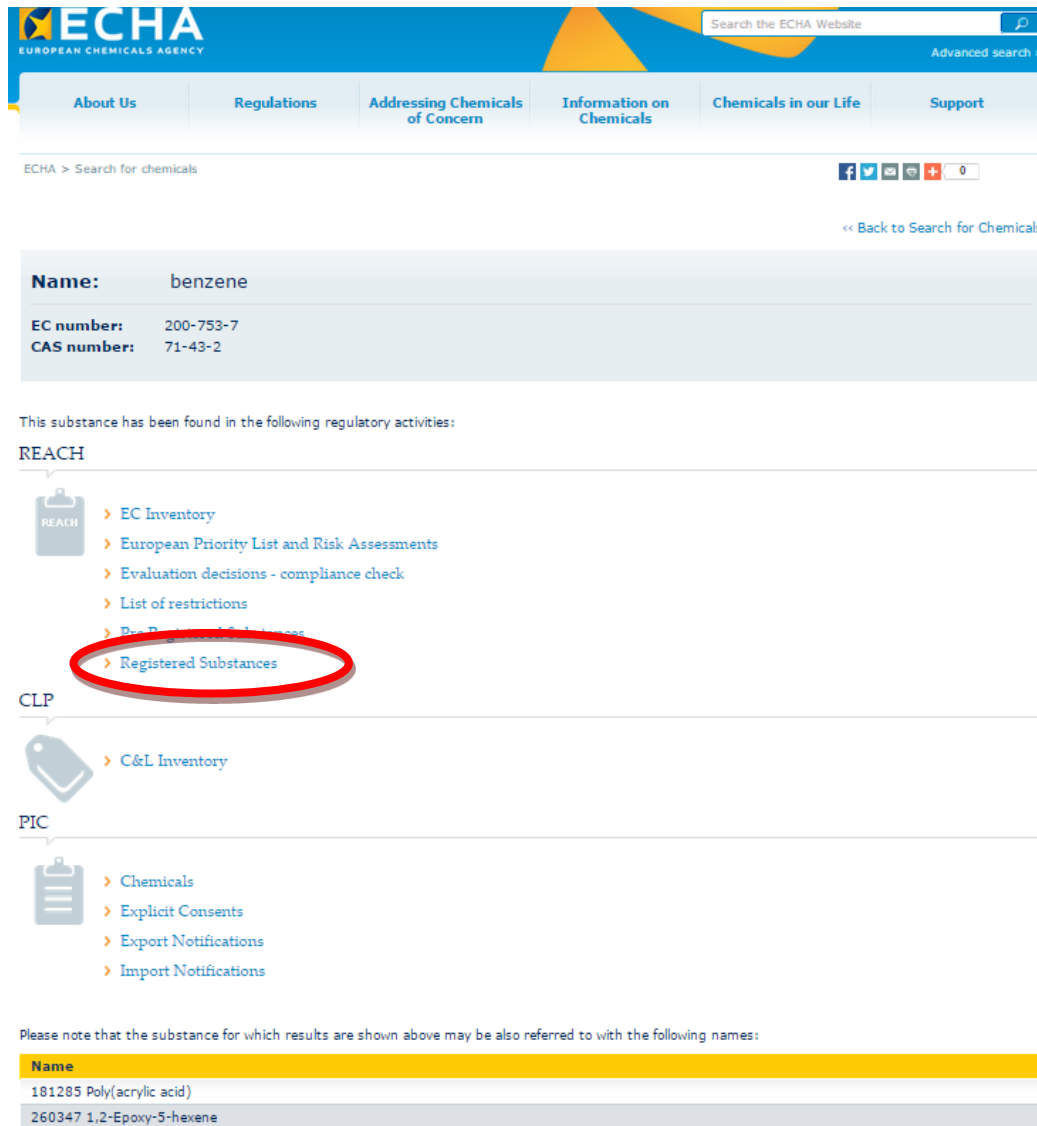
TECHNICAL DOSSIER

- Identity of the manufacturer/importer
- Identity of the substance
- Information on the manufacture and use(s) of the substance and if relevant use and exposure categories
- Classification and labelling of the substance
- Guidance on safe use
- Exposure information for substances in quantities of 1 to 10 tonnes
- Study summaries of the information on the intrinsic properties of the substance;
- Robust study summaries of the information on the intrinsic properties of the substance, if required;
- Proposals for further testing, if relevant

CHEMICAL SAFETY REPORT

- Summary of risk management measures
- Declarations that risk management measures are implemented and communicated
- Identity of the substance and physical and chemical properties
- Manufacture and uses
- Classification and labelling
- Environmental fate properties
- Human health hazard assessment
- Human health hazard assessment of physicochemical properties
- Environmental hazard assessment
- PBT and vPvB assessment
- Exposure assessment
- Risk characterisation

Substance info on the ECHA website



The screenshot shows the ECHA website interface. At the top, there is a search bar with the text "Search the ECHA Website" and a magnifying glass icon. Below the search bar is a navigation menu with the following items: "About Us", "Regulations", "Addressing Chemicals of Concern", "Information on Chemicals", "Chemicals in our Life", and "Support".

Below the navigation menu, the text "ECHA > Search for chemicals" is displayed. To the right of this text are social media icons for Facebook, Twitter, LinkedIn, YouTube, and a plus sign, followed by a "0" in a circle. Below these icons is a link that says "<< Back to Search for Chemicals".

The main content area shows the search results for "benzene". It includes a table with the following information:

Name:	benzene
EC number:	200-753-7
CAS number:	71-43-2

Below the table, the text "This substance has been found in the following regulatory activities:" is displayed. This is followed by three sections: "REACH", "CLP", and "PIC".

The "REACH" section contains a list of links: "EC Inventory", "European Priority List and Risk Assessments", "Evaluation decisions - compliance check", "List of restrictions", "Disposal of Chemicals", and "Registered Substances". The "Registered Substances" link is circled in red.

The "CLP" section contains a link: "C&L Inventory".

The "PIC" section contains a list of links: "Chemicals", "Explicit Consents", "Export Notifications", and "Import Notifications".

At the bottom of the page, there is a note: "Please note that the substance for which results are shown above may be also referred to with the following names:"

Name
181285 Poly(acrylic acid)
260347 1,2-Epoxy-5-hexene

CLP Information

- Notification to C&L Inventory, applies to suppliers, includes info on
 - the notifier
 - the substance (classification or lack of, with reasoning)
 - concentration limits & label elements
- Public version of the C&L Inventory allows searching of the database, except for the notifier info (and IUPAC name, if flagged as confidential)

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
203-458-1	107-06-2	602-012-00-7	1,2-dichloroethane ethylene dichloride

ATP Inserted / Updated: CLP00

Classification (Table 3.1)

Classification		Labelling		Specific Concentration limits, M-Factors	Notes
Hazard Class and Category Code(s)	Hazard Statement Code(s)	Hazard Statement Code(s)	Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	
Flam. Liq. 2	H225	H225		GHS07 GHS02 GHS08 Dgr	
Acute Tox. 4 *	H302	H302			
Skin Irrit. 2	H315	H315			
Eye Irrit. 2	H319	H319			
STOT SE 3	H335	H335			
Carc. 1B	H350	H350			

Signal Words

Danger

Pictograms



Exclamation mark



Flame



Health hazard

DSD Classification (Table 3.2) and Seveso II Data

Classification	Risk Phrases	Safety Phrases	Indication of danger	Concentration Limits	
				Concentration	Classification
F; R11	45				
Carc. Cat. 2; R45	11	53	F		
Xn; R22	22	45	T		
Xi; R36/37/38	36/37/38				


Seveso Data

Seveso Substance	Main Seveso Category	Other Seveso Categories	Seveso Concentration	Categories
Yes	7b	-	C ≥ 25 %	-
			20 % ≤ C < 25 %	-
			0,1 % ≤ C < 20 %	-

Notified classification and labelling

Notified classification and labelling

General Information

EC Number	CAS Number	IUPAC Name [?]
203-458-1	107-06-2	1,2-Dichloroethane 

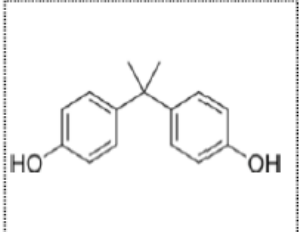


Discuss (0)

Notified classification and labelling according to CLP criteria

Classification			Labelling		Specific Concentration limits, M-Factors	Notes	Number of Notifiers [?]	Joint Entries [?]	View
Hazard Class and Category Code(s)	Hazard Statement Code(s)	Hazard Statement Code(s)	Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)					
Flam. Liq. 2	H225	H225					291		
Acute Tox. 4	H302	H302							
Skin Irrit. 2	H315	H315							
Eye Irrit. 2	H319	H319		GHS07 GHS02 GHS08 Dgr					
STOT SE 3	H335	H335							
Carc. 1B	H350	H350							
Flam. Liq. 2	H225	H225				93			
Acute Tox. 4	H302	H302							
Skin Irrit. 2	H315	H315							
Eye Irrit. 2	H319	H319		GHS02 GHS06 GHS08 Dgr					
Acute Tox. 3	H331	H331							
STOT SE 3	H335	H335							
Flam. Liq. 2	H225	H225				79			
Acute Tox. 4	H302	H302							
Skin Irrit. 2	H315	H315							
Eye Irrit. 2	H319	H319		GHS07 GHS02 GHS08 Dgr					
STOT SE 3	H335	H335							
Carc. 1B	H350	H350							
Flam. Liq. 2	H225	H225				47			
Acute Tox. 4	H302	H302							
Skin Irrit. 2	H315	H315							
Eye Irrit. 2	H319	H319		Dgr					
STOT SE 3	H335	H335							
Carc. 1B	H350	H350							

Substance information (new 2015)

- Infocard

4,4'-isopropylidenediphenol		DRAFT	<i>Infocard – last updated 03/06/2014</i>
2,2-bis (4-hydroxyphenyl) propane; 2,2-di(4-hydroxyphenyl)propane; 4,4' isopropylidenediphenol; Biphenol A; Bisferol A; BPA ; C006780; DIAN; ...			
<p>Substance Identity</p> <p>EC Number 201-245-8 CAS Number 80-05-7 Molecular Formula C15H16O2</p> <div style="border: 1px dashed black; padding: 5px; margin: 10px 0;">  </div> <p>Critical properties</p> 	<p>Safety classification & labelling</p>  <p>Danger! This substance causes serious eye damage, is suspected of damaging fertility or the unborn child, may cause respiratory irritation, may cause an allergic skin reaction and is toxic to aquatic life with long lasting effects.</p> <p>The above is based on the Harmonised Classification and Labelling (ATP1) approved by the European Union and Classification and Labelling provided by companies to ECHA in REACH registrations.</p> <p>Regulatory actions</p> <p>Substance included in the Community Rolling Action Plan (CoRAP).</p>	<p>About this substance</p> <p>This substance is a High Production Volume chemical; per year 1,000,000+ tonnes are manufactured and/or imported in the European Economic Area.</p> <p>This substance can be found in products with material based on: plastic (e.g. food packaging and storage, toys, mobile phones), and paper (e.g. tissues, feminine hygiene products, nappies, books, magazines, wallpaper).</p> <p>This substance is used in the following products: coating products, fillers, putties, plasters, modelling clay, and adhesives and sealants. This substance has an industrial use resulting in manufacture of another substance (use of intermediates).</p> <p>This substance is used in the following areas: formulation of mixtures and/or re-packaging, and building & construction work. This substance is used in for the manufacture of: plastic products, electrical, electronic and optical equipment, bulk chemicals, machinery and vehicles, and pulp, paper and paper products.</p> <p>Release to the environment of this substance is likely to occur from industrial use: in the production of articles, formulation in materials, as an intermediate step in further manufacturing of another substance (use of intermediates), formulation of mixtures, and manufacturing of the substance. Other release to the environment of this substance is likely to occur from: indoor use in long-life materials with low release rate (e.g. flooring, furniture, toys, construction materials, curtains, foot-wear, leather products, paper and cardboard products, electronic equipment), outdoor use in long-life materials with low release rate (e.g. metal, wooden and plastic construction and building materials), indoor use (e.g. machine wash liquids/detergents, automotive care products, paints and coating or adhesives, fragrances and air fresheners), and outdoor use.</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>	
4,4'-isopropylidenediphenol – European Chemicals Agency Infocard – last updated 18/02/2014			More

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

Substance information (new 2015)

- Brief profile

4,4'-isopropylidenediphenol DRAFT

Brief Profile – last updated 03/06/2014

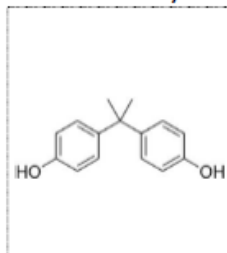
2,2-bis (4-hydroxyphenol) propane; 2,2-di(4-hydroxyphenyl)propane; 4,4' isopropylidenediphenol; Biphenol A; Bisferol A; BPA; C006780; DIAN; Ipognox 88

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. The type of uses and classifications may vary between different submissions to ECHA and for full understanding it is recommended to consult the source data. Regulatory actions information included in the brief profile may not be completed and it is responsibility of the substance manufacturers and importers to consult official publications.

[More](#)

Substance Identity



EC Number	201-245-8	Type of Substance	Mono constituent substance
EC Name	4,4'-isopropylidenediphenol	Origin	Organic
CAS Number	80-05-7	Registered Compositions	7
Index Number	604-030-00-0	Of which contain:	
Molecular Formula	C15H16O2	Impurities relevant for classification	2 compositions
IUPAC Name	2,2-bis (4-hydroxyphenol) propane	Additives relevant for classification	No compositions
Smiles	Oc1ccc(cc1)C(c2ccc(O)cc2)(C)C	Substance Listed	EINECS (European Inventory of Existing Commercial Chemical Substances)
InChi	1S/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		

[More](#)

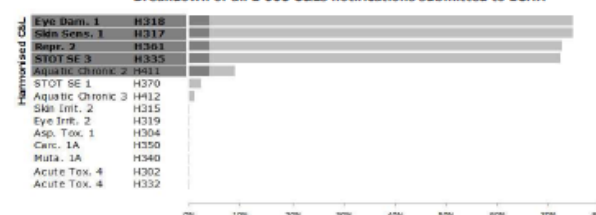
Safety Classification & Labelling



Danger! According to the [CLP](#) (ATP 1) established at Community level this substance causes serious eye damage, is suspected of damaging fertility or the unborn child, may cause respiratory irritation and may cause an allergic skin reaction.

Additionally, the classification provided by companies in REACH notifications identifies this substance is toxic to aquatic life with long lasting effects.

Breakdown of all 2 605 C&Ls notifications submitted to ECHA



At least one notifier has indicated that an impurity or an additive present in the substance impacts the notified classification.

[More](#)

Critical properties



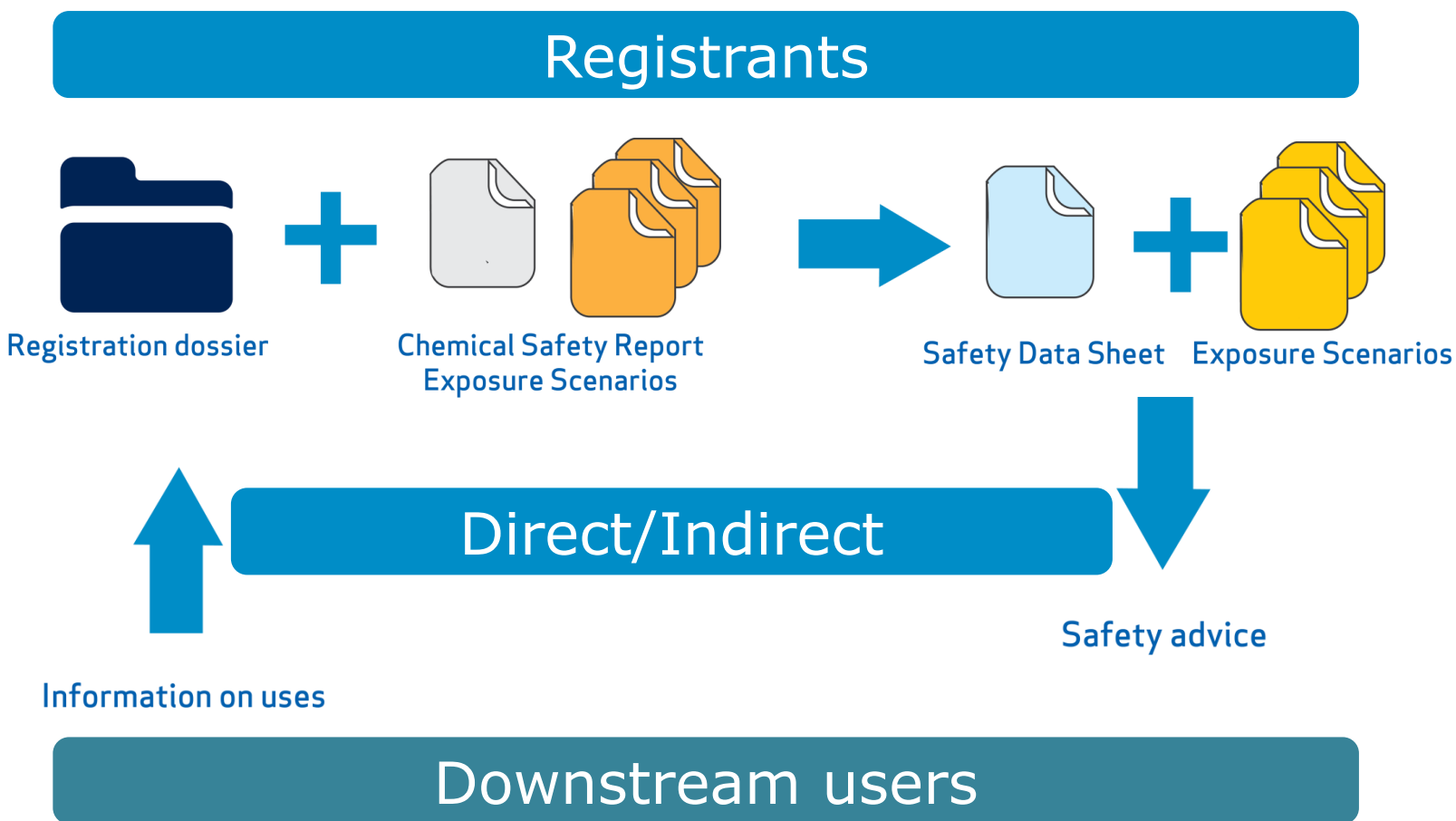
Regulatory Actions

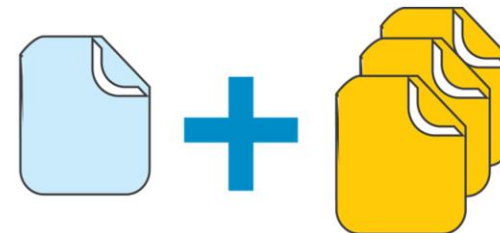
Registration, Evaluation, Authorisation & Restriction of Chemicals (REACH)

Registration	Pre-registration This substance has been pre-registered under REACH Registration This substance has been registered under REACH with 1 Joint Submission and 42 registrations.
Evaluation	Dossier Evaluation Registration dossiers submitted to ECHA for this substance have been evaluated under REACH Substance Evaluation This substance is being evaluated under the Community Rolling Action Plan (CoRAP)
Authorisation	Candidate List This substance has been identified as a substance of very high concern (SVHC) and is a candidate for authorisation Annex XIV (Authorisation List) According to Annex XIV of REACH this is a substance of very high concern and requires authorisation before it is used
Restriction	Annex XVII (Restriction List) Some uses of this substance are restricted under Annex XVII of REACH.

Classification Labelling & Packaging (CLP)

From registration to safe use information





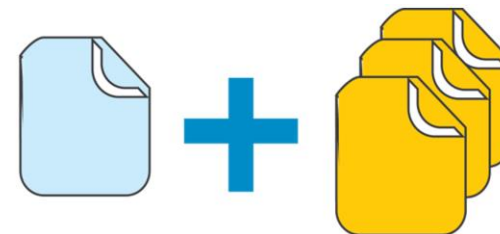
Safety Data Sheet Exposure Scenarios

Safety data sheet

16 sections

1. Identification of the substance/mixture and of the company/undertaking
2. Hazards identification
3. Composition/information on ingredients
4. First-aid measures
5. Fire-fighting measures
6. Accidental release measures
7. Handling and storage
8. Exposure controls/personal protection

9. Physical and chemical properties
10. Stability and reactivity
11. Toxicological information
12. Ecological information
13. Disposal considerations
14. Transport information
15. Regulatory information
16. Other information



Safety Data Sheet + Exposure Scenarios

Exposure scenarios

Recommended format includes 4 sections

Title section short titles give a description of the scope of the ES; title includes a full list of all the uses covered by the ES; tasks/activities covered by the ES can be listed as sub-headings called “Contributing Scenarios”

Conditions of use affecting exposure core of the ES; includes the “Operational Conditions” and “Risk Management Measures” for each contributing scenario; usually structured into sub-headings for each activity/contributing scenario

Exposure estimation and reference to its source relevant to end users if they are undertaking a more detailed review of the ES; includes information and key values from the exposure estimates such as release factors.

Guidance to DU to evaluate whether he works inside the boundaries set by the ES includes advice to DU on how can they verify that their use is covered by the ES, if their conditions of use don't match exactly the ES

How substance info may help downstream users

- General DUs:
 - Contact Suppliers: When there is a harmonised classification that suppliers are not using
 - Contact Suppliers: Where there is no harmonised classification and different suppliers are classifying differently
 - Report to ECHA: the classification differences from your suppliers via REACH-IT (if the DU has a different classification from all suppliers)
- Formulators providing an SDS for a mixture:
 - Verify information received from suppliers
 - Communicate the relevant information for safe use to their customers
 - Harmonise the information in the supply chain making it uniform, regardless of supplier

Support for substitution

- Subport: Substitution Steps, Identifying Substances of Concern, Case Story Database, Substitution Tools
- REACH regulatory risk management processes – consultation phases
- ECHA substitution webpage (under development)
 - Concept and tools for analysis of alternatives
 - Collection of links to relevant external sources

Thank you!

Fesil.mushtaq@echa.europa.eu

Subscribe to our news at
echa.europa.eu/subscribe

Follow us on Twitter
[@EU_ECHA](https://twitter.com/EU_ECHA)

Follow us on Facebook
[Facebook.com/EUECHA](https://www.facebook.com/EUECHA)