

Justification for the selection of a substance for CoRAP inclusion

Substance Name (Public Name):	1-[4-(1,1-dimethylethyl)phenyl]-3-(4-methoxyphenyl)propane-1,3-dione
Chemical Group:	
EC Number:	274-581-6
CAS Number:	70356-09-1
Submitted by:	Germany
Date:	17/03/2015

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 Other identifiers of the substance

Table 1: Substance identity

EC name:	1-[4-(1,1-dimethylethyl)phenyl]-3-(4-methoxyphenyl)propane-1,3-dione
IUPAC name:	1-(4-tert-butylphenyl)-3-(4-methoxyphenyl)propane-1,3-dione
Index number in Annex VI of the CLP Regulation	
Molecular formula:	C ₂₀ H ₂₂ O ₃
Molecular weight or molecular weight range:	310.39 g/mol
Synonyms/Trade names:	Avobenzon BMDM

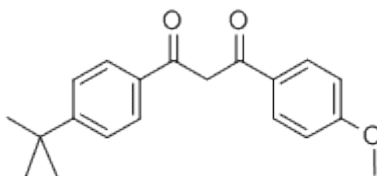
Type of substance

Mono-constituent

Multi-constituent

UVCB

Structural formula:



2 CLASSIFICATION AND LABELLING

2.1 Harmonised Classification in Annex VI of the CLP

Not listed.

2.2 Self classification

- In the registration:
 - Aquatic Chronic 4;H413: May cause long lasting harmful effects to aquatic life
- The following hazard classes are in addition notified among the aggregated self classifications in the C&L Inventory:
 - Aquatic Chronic 2;H411: Toxic to aquatic life with long lasting effects
 - Aquatic Acute 1;H400: Very toxic to aquatic life with long lasting effects.
 - Aquatic Chronic 1; H400: Very toxic to aquatic life
 - Aquatic Chronic 1; H412: Harmful to aquatic life with long lasting effects.
 - Acute Tox. 4;H302: Harmful if swallowed.
 - Skin Irrit. 2 ;H315: Causes skin irritation
 - STOT SE 3;H335: May cause respiratory irritation.

2.3 Proposal for Harmonised Classification in Annex VI of the CLP

No proposal publically available.

3 INFORMATION ON AGGREGATED TONNAGE AND USES

From ECHA dissemination site			
<input type="checkbox"/> 1 - 10 tpa	<input type="checkbox"/> 10 - 100 tpa	<input type="checkbox"/> 100 - 1000 tpa	
<input checked="" type="checkbox"/> 1000 - 10,000 tpa	<input type="checkbox"/> 10,000 - 100,000 tpa	<input type="checkbox"/> 100,000 - 1,000,000 tpa	
<input type="checkbox"/> 1,000,000 - 10,000,000 tpa	<input type="checkbox"/> 10,000,000 - 100,000,000 tpa	<input type="checkbox"/> > 100,000,000 tpa	
<input type="checkbox"/> <1 >+ tpa (e.g. 10+ ; 100+ ; 10,000+ tpa)		<input type="checkbox"/> Confidential	
<input checked="" type="checkbox"/> Industrial use	<input checked="" type="checkbox"/> Professional use	<input checked="" type="checkbox"/> Consumer use	<input type="checkbox"/> Closed System
The substance is used as a UVA filter and as such finds application in personal care products.			

4 OTHER COMPLETED/ONGOING REGULATORY PROCESSES THAT MAY AFFECT SUITABILITY FOR SUBSTANCE EVALUATION

<input type="checkbox"/> Compliance check, Final decision	<input type="checkbox"/> Dangerous substances Directive 67/548/EEC
<input 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 ; Biocidal Product Regulation (Regulation (EU) 528/2012)
<input type="checkbox"/> Annex XIV (Authorisation)	<input type="checkbox"/> Other (provide further details below)
<input type="checkbox"/> Annex XVII (Restriction)	

5 JUSTIFICATION FOR THE SELECTION OF THE CANDIDATE CoRAP SUBSTANCE

5.1 Legal basis for the proposal

- Article 44(2) a) and c) (refined prioritisation criteria for substance evaluation)
- Article 45(5) (Member State priority)

5.2 Selection criteria met (why the substance qualifies for being in CoRAP)

- Fulfils criteria as CMR/ Suspected CMR
- Fulfils criteria as Sensitiser/ Suspected sensitiser
- Fulfils criteria as potential endocrine disrupter
- Fulfils criteria as PBT/vPvB / Suspected PBT/vPvB
- Fulfils criteria high (aggregated) tonnage (*tpa* > 1000)
- Fulfils exposure criteria
- Fulfils MS's (national) priorities

5.3 Initial grounds for concern to be clarified under Substance Evaluation

Hazard based concerns		
CMR <input type="checkbox"/> C <input type="checkbox"/> M <input type="checkbox"/> R	Suspected CMR ¹ <input type="checkbox"/> C <input type="checkbox"/> M <input type="checkbox"/> R	<input type="checkbox"/> Potential endocrine disruptor
<input type="checkbox"/> Sensitiser	<input type="checkbox"/> Suspected Sensitiser ¹	
<input type="checkbox"/> PBT/vPvB	<input checked="" type="checkbox"/> Suspected PBT/vPvB ¹	<input type="checkbox"/> Other (please specify below)
Exposure/risk based concerns		
<input checked="" type="checkbox"/> Wide dispersive use	<input checked="" type="checkbox"/> Consumer use	<input type="checkbox"/> Exposure of sensitive populations
<input checked="" type="checkbox"/> Exposure of environment	<input type="checkbox"/> Exposure of workers	<input type="checkbox"/> Cumulative exposure
<input type="checkbox"/> High RCR	<input checked="" type="checkbox"/> High (aggregated) tonnage	<input type="checkbox"/> Other (please specify below)
<p>The substance is fulfilling the screening criteria for persistence and bioaccumulation as defined in Annex XIII, i.e.</p> <p>P/vP criterion BMDM is not readily biodegradable. The available data do not allow assessing degradation in environmental compartments. Therefore, the substance is considered to be potentially persistent.</p> <p>B/vB criterion The substance has a log Pow > 4.5. The available data on bioconcentration in fish require further evaluation. BMDM is therefore considered to be potentially bioaccumulative.</p> <p>T criterion Short-term studies on aquatic ecotoxicology are available for BMDM. No long-term studies on aquatic ecotoxicology are available. Based on the available data, a definitive conclusion on toxicity cannot be drawn.</p> <p>The substance has a high tonnage (>1000t) and is used as UV-filter in personal care products. Thus an environmental exposure is likely.</p>		

5.4 Preliminary indication of information that may need to be requested to clarify the concern

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

P/vP criterion
The substance is not readily biodegradable. The available data do not allow assessing degradation in environmental compartments. Therefore, the substance is considered to be potentially persistent. Further information is required to allow a definitive conclusion on persistence.

B/vB criterion
Further evaluation and, if necessary, further testing on bioaccumulation is required to clarify whether the substance is bioaccumulative or very bioaccumulative.

T criterion
Further evaluation and, if necessary, further testing is required to clarify whether the substance is toxic especially on sediment organisms.

5.5 Potential follow-up and link to risk management

<input checked="" type="checkbox"/> Harmonised C&L	<input checked="" type="checkbox"/> Restriction	<input checked="" type="checkbox"/> Authorisation	<input type="checkbox"/> Other (provide further details)
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If the substance is identified as a PBT/vPvB substance, an analysis of risk management options will be carried out, taking into account information on use and exposure. Potential options are the inclusion in the Candidate List with or without Authorisation, but also Restriction.