

## Justification for the selection of a candidate CoRAP substance

<b>Substance Name (Public Name):</b>	Triphenyl phosphate
<b>Chemical Group:</b>	Organic
<b>EC Number:</b>	204-112-2
<b>CAS Number:</b>	115-86-6
<b>Submitted by:</b>	UK CA
<b>Published:</b>	20/03/2013

### NOTE

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

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## 1 IDENTITY OF THE SUBSTANCE

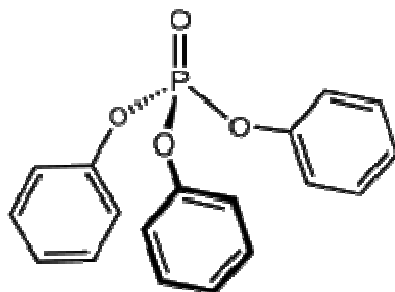
### 1.1 Name and other identifiers of the substance

Table 1: Substance identity

<b>Public Name:</b>	Triphenyl phosphate
<b>EC number:</b>	204-112-2
<b>EC name:</b>	Triphenyl phosphate
<b>CAS number (in the EC inventory):</b>	115-86-6
<b>CAS number:</b>	115-86-6
<b>CAS name:</b>	Phosphoric acid, triphenyl ester
<b>IUPAC name:</b>	Triphenyl phosphate
<b>Index number in Annex VI of the CLP Regulation</b>	Not applicable
<b>Molecular formula:</b>	C <sub>18</sub> H <sub>15</sub> O <sub>4</sub> P
<b>Molecular weight or molecular weight range:</b>	326.28
<b>Synonyms:</b>	TPP Trade name: Disflamoll TP

**Type of substance**     Mono-constituent     Multi-constituent     UVCB

**Structural formula:**



## **2 CLASSIFICATION AND LABELLING**

### **2.1 Harmonised Classification in Annex VI of the CLP**

No harmonised classification

### **2.2 Proposal for Harmonised Classification in Annex VI of the CLP**

None

### **2.3 Self classification**

The following self-classification is given by the registrant (on the dissemination site).

#### **CLP:**

Aquatic acute 1; H400: Very toxic to aquatic life

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

#### **DSD:**

N: R50/53; (Dangerous for the environment; Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment)

In the Classification and Labelling Inventory notifications vary from no self classification to one or both of the above and additionally:

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

Aquatic chronic 1; H410: Very toxic to aquatic life with long lasting effects

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

### 3 JUSTIFICATION FOR THE SELECTION OF THE CANDIDATE CoRAP SUBSTANCE

#### 3.1 Legal basis for the proposal

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

#### 3.2 Grounds for concern

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

An Endocrine Disruption screening tool suggests the substance may be an endocrine disruptor (a potential Androgen receptor ligand). There is no 2-generation study available, only a one-generation study, which showed no adverse effects up dose level of 690 mg/kg/day (the highest dose level tested). Given the wide dispersive & consumer use this potential concern should be verified.

The substance is self-classified for the environment based on acute and chronic toxicity in fish (however it is not bioaccumulative and it is readily biodegradable). A previous UK assessment of the substance identified potential risks for all areas of use for surface water (fresh and marine), sediment (fresh and marine) and soil compartments, and for exposure through the terrestrial food chain for one use.

#### 3.3 Information on aggregated tonnage and uses

<input type="checkbox"/> 1 - 10 tpa	<input type="checkbox"/> 10 - 100 tpa	<input type="checkbox"/> 100 - 1000 tpa
<input checked="" type="checkbox"/> 1000 - 10,000 tpa	<input type="checkbox"/> 10,000 - 100,000 tpa	
<input type="checkbox"/> 100,000 - 1000,000 tpa	<input type="checkbox"/> > 1000,000 tpa	
<input type="checkbox"/> Confidential		
Tonnage band given on the dissemination site.		
<input checked="" type="checkbox"/> Industrial use	<input type="checkbox"/> Professional use	<input checked="" type="checkbox"/> Consumer use
<input type="checkbox"/> Closed System		

Industrial Use:  
 Handling of raw materials and formulation of plastic preparations  
 Production of plastic articles

Consumer use:  
 General public: service life of articles containing triphenyl phosphite (e.g. adhesives, sealants)

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

<input checked="" type="checkbox"/> Compliance check final decision – under appeal	<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
<input type="checkbox"/> Annex XIV (Authorisation)	<input type="checkbox"/> Other (provide further details below)
<input type="checkbox"/> Annex XVII (Restriction)	
<p>Compliance Check - The following testing was requested in a final decision, but an appeal of the decision has been published;</p> <p>Sub-chronic toxicity (90-day, rat, oral) – Annex IX, 8.6.2 – EU method B.26 or OECD 408                      Developmental toxicity study (rabbit, oral) – Annex X, 8.7.2 – EU method B.31 or OECD 414</p> <p>As the substance was already on the CoRAP due to endocrine disruption concerns, it was decided not to address any potential deficiencies with respect to the compliance of the dossier with the standard information requirement set out in Annex X, 8.7.3 as this would be covered in the evaluation where the most suitable testing to address these concerns could be requested.</p> <p>The UK will consider the progress of the update and may revise the year of evaluation accordingly.</p>	

### 3.5 Information to be requested to clarify the suspected risk

<input checked="" type="checkbox"/> Information on toxicological properties	<input type="checkbox"/> Information on physico-chemical properties
<input type="checkbox"/> Information on fate and behaviour	<input checked="" type="checkbox"/> Information on exposure
<input type="checkbox"/> Information on ecotoxicological properties	<input type="checkbox"/> Information on uses
<input type="checkbox"/> Other (provide further details below)	
<p>More studies may be required to clarify whether triphenyl phosphate is an endocrine disruptor.</p> <p>For the environmental risk evaluation, emission estimates could be refined with more specific information for the substance itself. Testing on sediment and terrestrial organisms would allow evaluation for these compartments to be refined. Registered exposure scenarios for the environment should be checked during substance evaluation to ensure that releases from specified uses are below concentrations leading to a potential risk for the environment. The substance is also a major impurity in several phosphate flame retardant products, so evaluation may need to consider how to deal with these potential contributions to release.</p>	

### 3.6 Potential follow-up and link to risk management

<input type="checkbox"/> Restriction	<input type="checkbox"/> Harmonised C&L	<input type="checkbox"/> Authorisation	<input type="checkbox"/> Other (provide further details)
<p>Any follow-up will depend on the outcome of the evaluation.</p>			