

Justification for the selection of a candidate CoRAP substance

Substance Name (Public Name):	Triphenyl phosphite
Chemical Group:	Organic; ester of phosphorous acid and phenol
EC Number:	202-908-4
CAS Number:	101-02-0
Submitted by:	UK CA
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NOTE

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

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1 IDENTITY OF THE SUBSTANCE

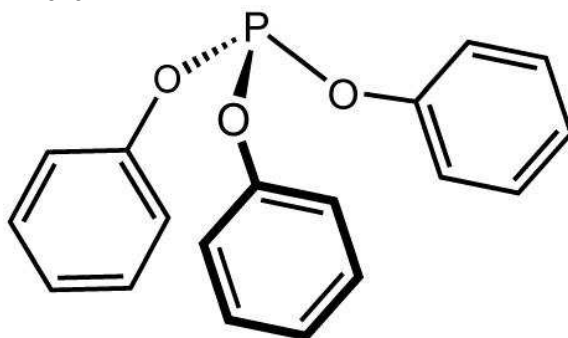
1.1 Name and other identifiers of the substance

Table 1: Substance identity

Public Name:	Triphenyl phosphite
EC number:	202-908-4
EC name:	Triphenyl phosphite
CAS number (in the EC inventory):	101-02-0
CAS number:	101-02-0
CAS name:	Phosphorous acid, triphenyl ester
IUPAC name:	Triphenyl phosphite
Index number in Annex VI of the CLP Regulation	015-105-00-7
Molecular formula:	C ₁₈ H ₁₅ O ₃ P
Molecular weight or molecular weight range:	310.29
Synonyms:	TPP Trade names: Weston TPP, Mark CH 66, Triphenyl phosphite, ADK STAB TPP, Lankromark LE65, Rostabil TPP, Doverphos 10

Type of substance Mono-constituent Multi-constituent UVCB

Structural formula:



2 CLASSIFICATION AND LABELLING

2.1 Harmonised Classification in Annex VI of the CLP

According to CLP criteria:

Index number: 015-105-00-7

Skin Irrit. 2; H315: Causes skin irritation (C ≥ 5%).

Eye Irrit. 2; H319: Causes serious eye irritation (C ≥ 5%).

Aquatic Acute 1; H400; Very toxic to aquatic life.

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

According to DSD criteria:

Xi; R36/38: Irritating to eyes and skin.

N; R50-53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Proposal for Harmonised Classification in Annex VI of the CLP

None.

2.3 Self classification

The following self-classification is published on the ECHA dissemination site. The environmental classification is challenged and additional classification is proposed.

CLP:

Acute Tox. 4; H302: Harmful if swallowed

Skin Irrit. 2; H315: Causes skin irritation (C ≥ 5%)

Skin Sensit. 1; H317: May cause an allergic skin reaction

Eye Irrit. 2; H319: Causes serious eye irritation (C ≥ 5%)

DSD:

Xn; R22: Harmful if swallowed;

Xi; R36/38: Irritating to eyes and skin

R43; May cause sensitisation by skin contact.

In addition are the following classifications included in the Classification and Labelling Inventory:

Acute Tox. 4; H312: Harmful in contact with skin.

Acute Tox. 5; H303: May be harmful if swallowed.

Skin Corr. 1B; H314: Causes severe skin burns and eye damage.

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 checked="" type="checkbox"/> (Suspected) CMR	<input checked="" type="checkbox"/> Wide dispersive use	<input type="checkbox"/> Cumulative exposure
<input checked="" 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)	

Toxicology - Screening studies revealed adverse effects on reproductive, behavioral and neurotoxicity endpoints. The substance is suspected reprotoxicant and might possess endocrine disrupting properties (effects on adrenal glands, testes, kidney, brain).

Exposure - The substance is self-classified as skin sensitiser and has wide dispersive use including consumer use and continuous exposure. Exposure information and risk characterisation information is missing therefore, it is not possible to assess if the risks are being managed.

The environmental fate properties of the triphenyl phosphite (TPP) and related phenyl/alkyl phosphites generally include low water solubility, low vapor pressure, and rapid hydrolysis to phosphorous acid and corresponding alcohols (in the case of TPP it is phenol). As some of phenols possess estrogenic or endocrine disruptor activities, there is a concern that the registered substance might be a potential ED (screening studies reported affected relative paired testes, adrenal glands, kidney and brain weights).

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		
The tonnage band is given on the ECHA dissemination website.		

JUSTIFICATION DOCUMENT FOR THE SELECTION OF A CORAP SUBSTANCE

<input checked="" type="checkbox"/> Industrial use	<input checked="" type="checkbox"/> Professional use	<input checked="" type="checkbox"/> Consumer use	<input type="checkbox"/> Closed System
<p>Industrial uses: Manufacture of TPP - Stabiliser in polymers Manufacture of coatings and adhesives, Use of formulated polymer in manufacturing, formulation, packing and distribution, Lubricant formulation, Use as an intermediate, Industrial use of lubricants.</p> <p>Professional uses: Use of coatings and adhesives, Use of lubricants</p> <p>Consumer uses: Use of coatings, adhesives and lubricants.</p>			

3.4 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 checked="" 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)	
Annex VI (CLP) see 2.1	

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>Exposure – An exposure assessment and risk characterisation.</p> <p>Toxicology – studies to determine whether the substance is a reprotoxicant and has endocrine disrupting properties.</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)
Any follow-up will depend on the result of the evaluation.			